

The



CHEMIST AND DRUGGIST

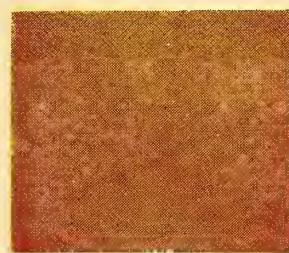
Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2815.
VOL. CXX.

JANUARY 20, 1934

Annual Subscription (with
Diary) 20/- Single Copies 9d.

Here you see the new
Bütywave Soapless
Shampoo packet.

It is going to be heavily
advertised to the public
at 3d.

As it is the very shampoo every woman has
always wanted (no soap or soda to get in the
hair) the demand should
be considerable. Lathers
as freely in tap water
(or even sea water) as
in rain water.

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on the usual generous
Bütywave terms.

**BÜTYWAVE
SOAPLESS
SHAMPOO**

NO SOAP • NO ALKALI



3 more new lines

- Bütywave Soapless Shampoo (liquid) in 6d. and 1/- bottles.

- Bütywave Wave Set in 6d. and 1/- bottles.

- Bütywave Baby Shampoo. A quick selling line, beautifully packed. Contains neither soap nor soda. In bottles at 1/3d.

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Instantaneous Elastic First Aid

3^D 6^D & 1/-

Trade Prices—Boxed in dozens
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We can help to preserve your individuality with our system of special packs and well presented stock lines.

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50's 7/6 doz.

INHALANTS
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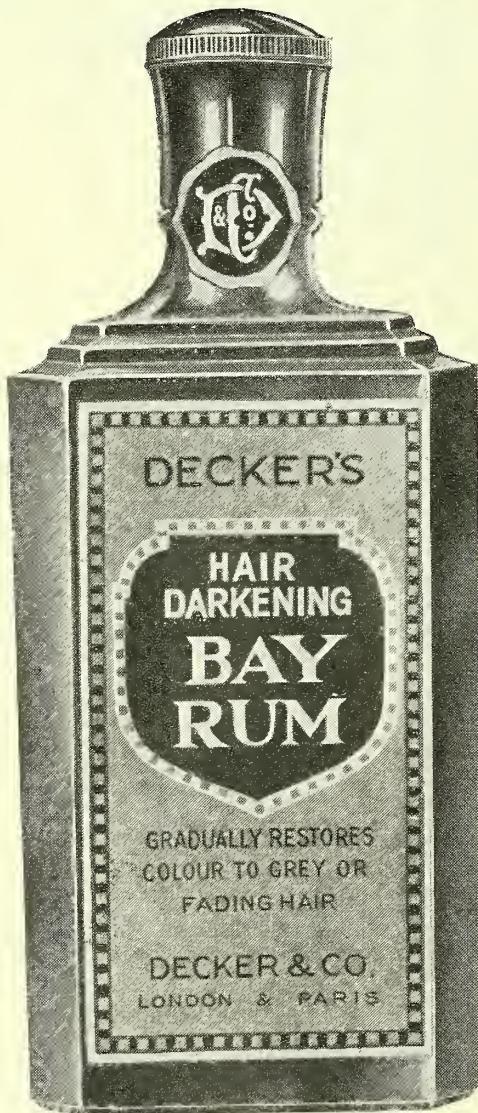
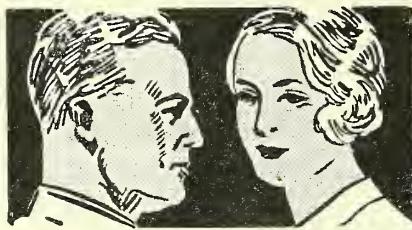
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Decker's is NOT a DYE . . .

*It simply DARKENS
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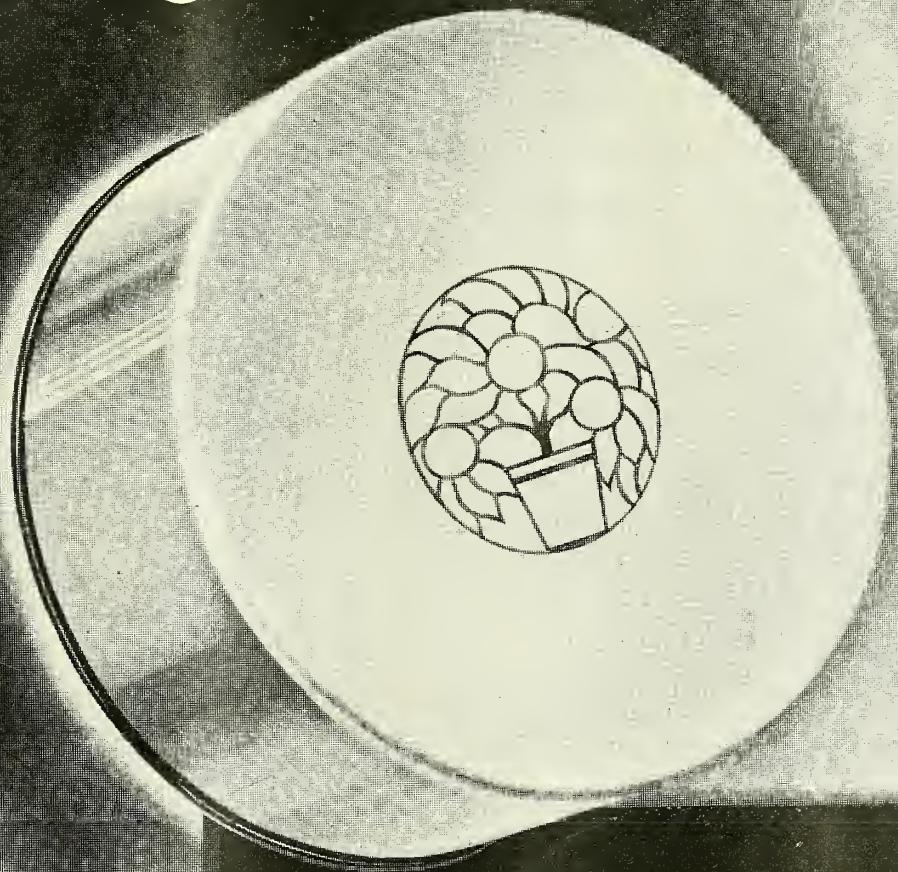


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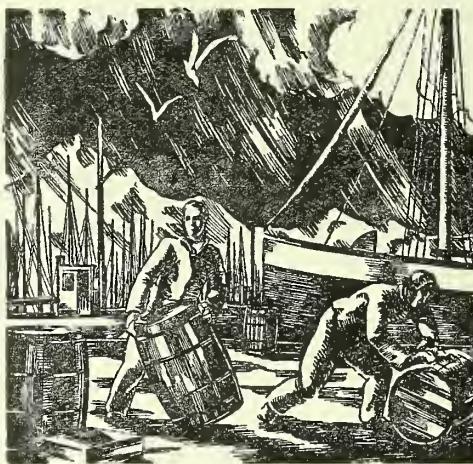
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(Taytee's)

LIVERPOOL

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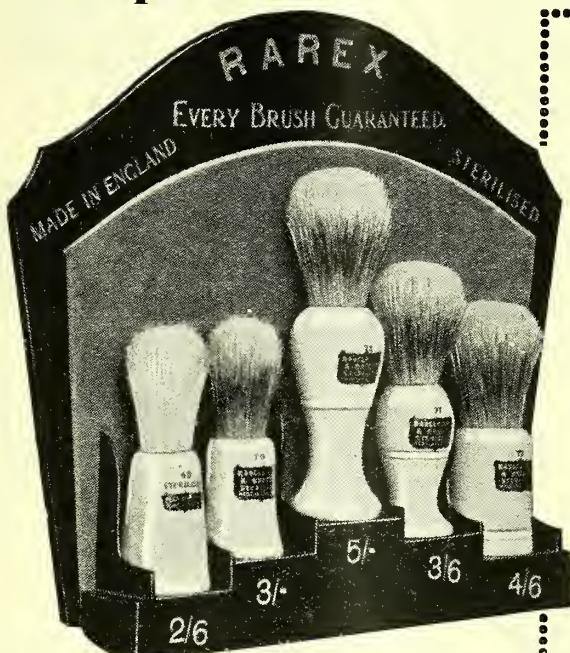
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All Drugs and Chemicals employed in manufacture are the finest procurable and the finished Products are guaranteed to conform to B.P. or other recognised standards.

The Brush with the IVORY GRAIN

- **Knots guaranteed not to come out**
- **Handles guaranteed not to split**
- **Handles will not discolour in the shop window**



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All IVORY GRAINED HANDLES resplendent finish

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All the advantages of your own “Delivery Service” for one inclusive annual charge—really smart vans with bodies built to your order—capable uniformed drivers.

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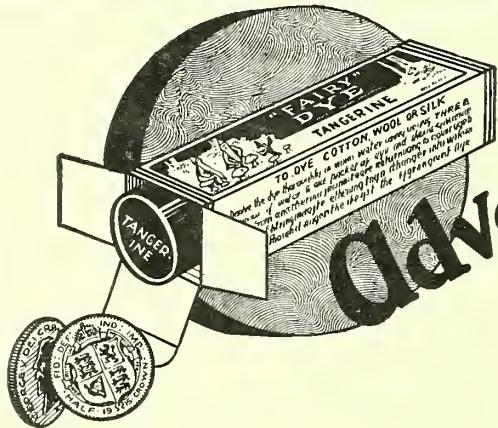
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ON THIS
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are big sellers—always in popular demand. They mean quick turnover and liberal profits. Fairy Dyes are forging steadily ahead and you should periodically inspect your stocks.

Retailed at 2d. per tube—attractively packed. 31 shades and colours.

Be wise—stock

Fairy Dyes

FAIRY DYES, LTD., GLASGOW, N.W.



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THE
PUBLIC
WILL
HAVE

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BRAND
INDIGESTION TABLETS

W. B. CARTWRIGHT LTD., Rawdon, Leeds

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PROFIT
ON
AN
OUTLAY
OF
10^{D.}
OR
80%



SOLD
BY
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ONLY
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LONDON
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Retail Price 1/6 per Jar. Chemists' Price 10/- per doz.

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Chemist's Own Name



Three Brands

DISCUS BRAND
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Dark Blue on Cream



M BRAND
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- Generous Profits

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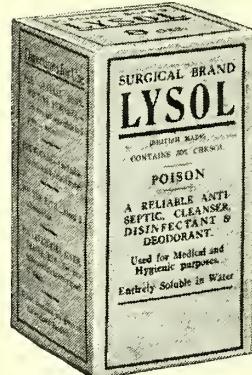
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Reduction in prices of LYSOL

SURGICAL BRAND, GUARANTEED B.P. 50% CRESOLS



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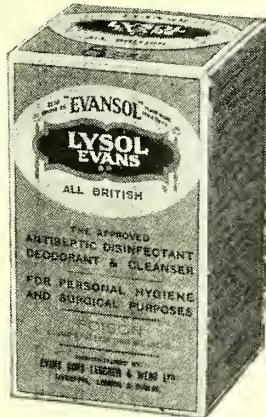


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NEW PRICES	4 oz.	8 oz.	16 oz.
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THE SUPERB LYSOL OF DISTINCTION



4 oz.	8 oz.	16 oz.	32 oz.
5/6 doz.	9/- doz.	14/6 doz.	24/- doz. net.

Special quotations given for quantities of 1 gross assorted

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This new soap contains Activated Colloidal Sulphur ("SULPHAZE"). The penetrating qualities of the sulphur particles, the average size of which is 0.00007 millimetre (0.7 of a micron) provide COLREX Soap with definite healing and anti-septic properties. Because of its purifying and cleansing action in the skin (down in the deepest layers) COLREX Soap is being advertised as a Beauty Soap.

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- (c) 1 gross tablets and upwards - 6/- per doz. less 5% monthly a/c.
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Full particulars from your Wholesaler or
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SPECIAL OFFER

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a non-greasy preparation of Powder and Cream



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Ask for our special terms for quantities. From all Wholesalers or direct from the Sole Manufacturers:

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Supplied on cards or boxed. Show cards with every order.

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Each Retail

British Made

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MADE BY
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PETAL DUST

"Wherein the subtle savour of the Flowers sublimely dwells."

THE GREAT FLORAL AIR PURIFIER

A Trial will convince you that—

PETAL DUST, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

PETAL DUST, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

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Attractive Advertising matter free on request.

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Super Concentrates
COLOGNE PERFUMES

ORDINARY
COLOGNE
STRENGTH

10/- Pint.

Eau de Cologne
only.

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SAMPLE
SUPPLIED.

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(or any perfume)
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COLOGNE
QUALITY
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VIOLET
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The Gold Medal DOUBLE-SIX "Combless" Safety Razor



Awarded the
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Inventions.

The revolutionary
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ensure easy sales. A smooth guard
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Cones hold the blade with all the
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prevent hair and soap clogging the
edge. All metal parts are heavily
plated, handle is of multi-coloured
bakelite.



Sells at
1/-

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They sell on sight.

1d.

SOUPLEX RAZORS
Same principle as "Double-Six." Chromium Plated, packed
Bakelite box with
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Sooplex blade.

SOUPLEX BLADES
One of the most popular of British blades.

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Get supplies
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STEADILY GROWING

The popularity of
Rowland's Macassar
Oil as a Hair Tonic and
Dressing, is reflected
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New
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Razors & Blades
Are you ready to supply?

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PACKET OF
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Order your Stock
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Any Colour.



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(formerly known as **MATITÉ**)

Consequent on the difficulty of registering the name **MATITÉ** — L. T. PIVER have been compelled to change the name to **MATTEVER** to apply to the whole series of the **MATITÉ** beauty preparations.

Apart from the change in the name, Poudre **MATTEVER** is precisely the same powder and package. Poudre **MATTEVER** gives a completely **MATT** appearance to the complexion never perfectly achieved by *any other powder*.

Sold in one size only, $1/3$ a box, at 10/- per dozen, in 9 shades. **Special terms given for Window and Counter Displays.**

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Parfum **MATTEVER**

and in addition to our well-known specialities **Le Trefle**, **Incarnat**, and **d'Aventure** powders & perfumes.

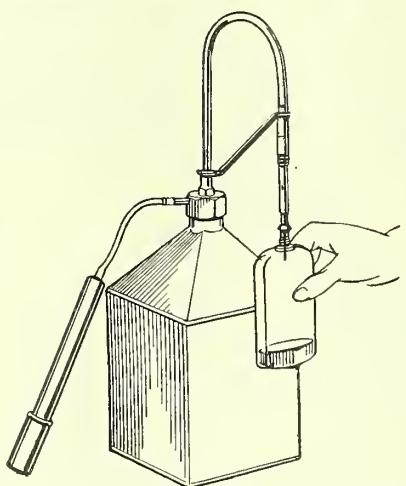
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 PARSCENT LTD.,
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BOTTLE FILLING APPARATUS
for Sprinkler-neck Bottles

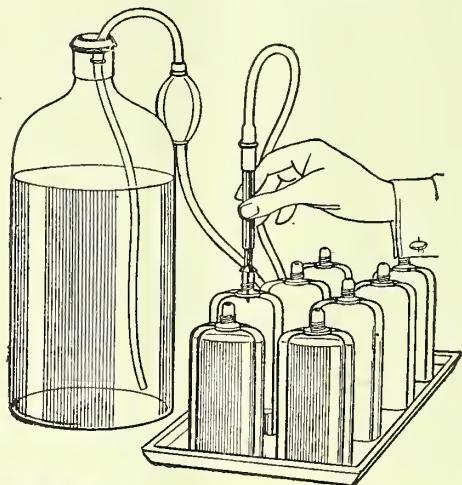


Pressure Type for Oils or
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Made in
two styles

Gravity Type
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A new type of Filling Valve
Prov. Patent No. 30222



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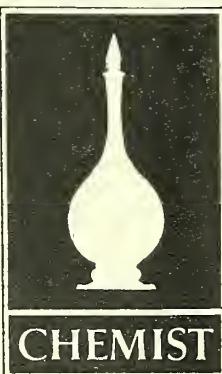
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WE SUPPLY
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FOR PACKING
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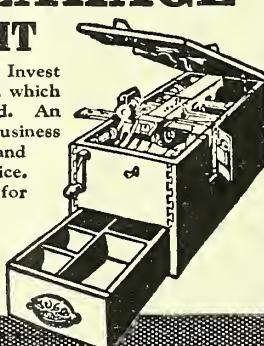
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for 1934 should be your aim. Invest in a GLEDHILL CASH TILL, which helps you to achieve this end. An invaluable adjunct to your business that safeguards your interests and gives constant, reliable service. British throughout. Send for particulars

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Cash Till Rolls of every description.



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FITTED DRESSING CASES & MILITARY SETS
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6 TOWELS
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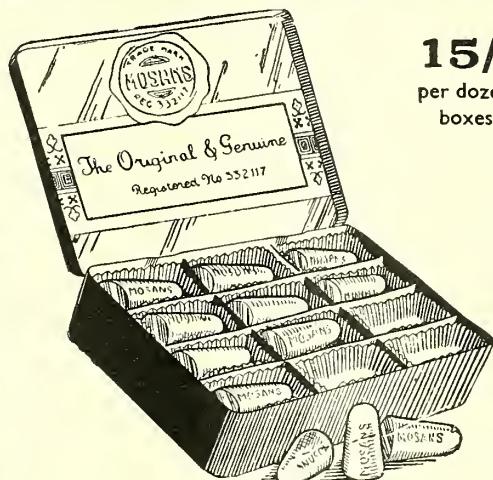
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- "ORIGINAL," most popular.
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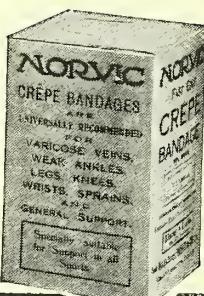
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The Blue Carton, prominently displayed in the window or on the counter, will increase your crêpe bandage sales enormously. A P.A.T.A. LINE with FULL 33% PROFIT.

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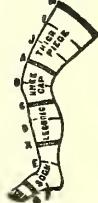
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Telegraphic Address: "APPLIANCE, NOTTINGHAM."

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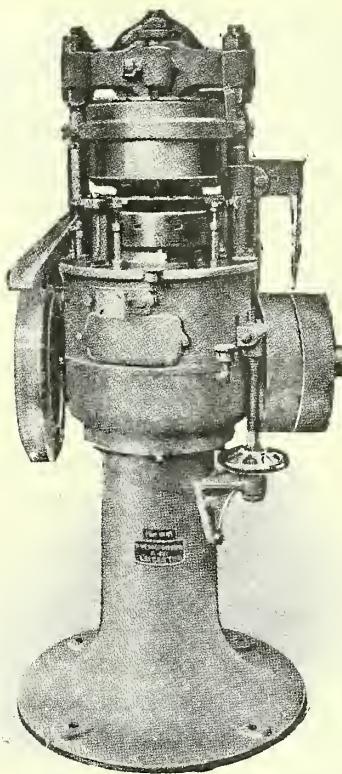
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PRICES ON APPLICATION



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Rotary Tablet Machines

These Machines are now made in 4 sizes :

12-Punch Ordinary for Tablets from $\frac{3}{8}$ " to $\frac{7}{8}$ " diameter.	Output 400 per min.
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12-Punch Heavy for thick Tablets and Blocks 1" diameter.	Output 250 per min.
18-Punch Heavy for thick Tablets and Blocks 1" diameter.	Output 400 per min.

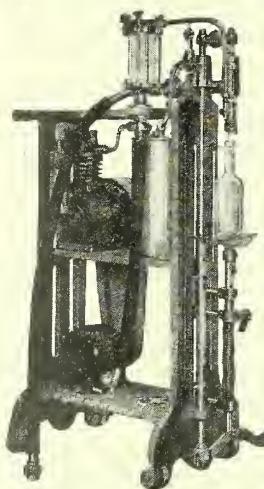
LISTS ON APPLICATION.

**Single Punch Machines made in 5 sizes
for Tablets from $\frac{1}{8}$ " to $1\frac{1}{2}$ " diameter,
also Lozenges.**

MACHINES FOR BATH SALT TABLETS

ROBERTS' PATENT

"LEO" VACUUM FILLER



for Glass, Stone,
and Tin Bottles.
Fills all sizes from
drachm to quart—
long, short or
sprinkler neck.

Clean and Rapid
No Over Filling
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Rejected
Easy to Clean
Self Rinsing

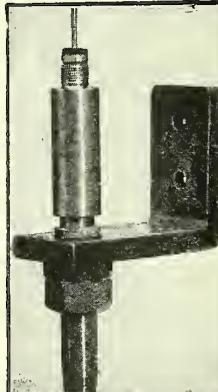
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Roberts' Patent Filling Machine Co.

T. ROBERTS, Proprietor,

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Makers of every description of Bottle Filling and Shallow
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SPRINKLER BOTTLES

Automatic Rinsing

Can be connected to the town's water supply by metal or india rubber hose pipe.

By merely passing the mouth of the bottle over the jet and pressing the bottle downwards water is automatically sprayed into the bottle. The water completely drains away from the bottle as it is withdrawn.

Further particulars may be obtained from the makers:—

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$\frac{1}{3}$ d. PER GALLON

By using Brown's Patent Automatic Water Stills pure distilled water may be obtained at the above cost, using steam at any pressure between 30 and 100 lbs. per square inch. The product is pure distilled water, *not* condensed water from steam service pipes. *Full particulars free on application. Enquiries are not followed by personal call.*

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Gravities 890/95, 885/90, 880/85.

HIGHEST VISCOSITIES.

BEST CLOUD TESTS.

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SHADEINE FOR TINTING GREY HAIR

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CACHETS "FINOT"

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With inscriptions in any desired tint;
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These Cachets are especially adapted for Headache, Neuralgia and other powders.

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CAN DO IT!

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CAMILATONE'S 3RD FULL PAGE

appears in

SUNDAY DISPATCH JANUARY 28

Note particularly that a **VERY SPECIAL INTRODUCTION** to the public of "LUSTRSET"—Camilatone's new Setting Medium—is being made in this striking advertisement, which will go into more than a million homes on Sunday, January 28th.

The **SPECIAL BONUS OFFER** on small quantities ordered for preliminary stock is still open—TWO extra tubes with an order for 1 dozen—FIVE extra tubes with an order for 2 dozen. Why not take advantage of it and **BE READY FOR THIS FULL PAGE?**

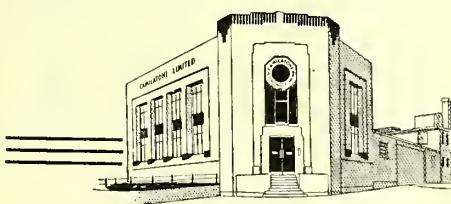
[Note :—other large spaces will follow immediately.]

LUSTRSET (for greasy hair) - - - 1/3 and 2/- per tube

LUSTRSET HIGH GLOSS (for dry hair) - 1/3 and 2/- per tube

Lustrset is equally suitable for men and women. Men prefer it because it does not grease and gum the hair and keeps the hair in position all day.

Women like it because it gives a better setting than ordinary liquid wave sets and is convenient and extremely economical to use. A small 1/3 tube contains sufficient for 30 to 35 settings.



CAMILATONE LTD., CAMILATONE HOUSE, WELSH HARP, LONDON, N.W. 9

Announcing The NEW 3/- SIZE IRON-OX

BRAND TONIC TABLETS

"Iron-Ox," the old-established tonic tablet, is now available for the first time in a 3/- package. In the last six months the sales of "Iron-Ox" have been quadrupled. Are you sharing this ever-growing business?

3/- SIZE - -	28/9 per dozen
1/3 SIZE - -	12/- per dozen
5/- SIZE - -	48/- per dozen

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The Chemists' and Druggists' Society of Ireland, and of
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JANUARY 20, 1934

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News of the Week

Key Industry Duty: Amido Ethyl Alcohol Exempted

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting amido ethyl alcohol (mono-ethanolamine) from key industry duty from January 20, 1934, to December 31, 1934.

Inquests

At Bishop Stortford, on January 10, an inquiry was held concerning the death of Agnes D. Eldred, Birchanger, who, the evidence showed, died at an institution during a slight operation on the nose. The assistant matron said that when the operation was performed the cocaine was not weighed, but was scattered on a little teaspoon. The doctor told her the quantity. The adrenaline was poured from a bottle, and the doctor added the water. The adrenaline was not weighed nor the water measured. The medical officer said that in the spoon was 5 gr. of cocaine, and he used about 4 gr., and about 20 minimis of adrenaline solution. The Coroner: Don't you think it a crude way of doing things? Cocaine is a dangerous drug. I think these things ought to be weighed. Recording a verdict of "Death by misadventure," the coroner said he did not wish to blame anyone, but drugs should be weighed accurately.

After an adjournment for analysis, the Camberwell (London) coroner concluded, on January 16, an inquest on the body of Miss Olive C. Garner, described as a sister employed at St. Giles' Hospital, who was found dead in bed. Dr. J. A. Gardner said that in certain organs he found about $\frac{1}{2}$ gr. of luminal, and about $\frac{1}{16}$ gr. in the stomach contents. The latter showed that the woman had not taken an enormous dose with a view to committing suicide. He received a paper bag contain-

ing tablets, most of which contained luminal. Taking his findings with the report of the *post-mortem* findings, he was satisfied that the woman had been the subject of chronic poisoning of a barbituric acid compound. The coroner said he did not think there was any evidence to justify a verdict that she deliberately intended to take her life. "It cannot be too strongly emphasised," he added, "that it is an extremely dangerous practice for members of the public to administer to themselves any of these barbituric acid compounds which have a potential source of danger to life, and which should never be administered except on the prescription of a properly qualified medical practitioner, and then only according to the dose which is prescribed at the time."

A Co-operative Society's Contract

At the meeting of the Nuneaton Town Council on January 10 there was considerable discussion on the report of the health committee recommending that the tender of the Nuneaton Co-operative Society, Ltd., for the supply of drugs and dressings for twelve months be accepted. One member asked: "Who paid the entrance fee for the Corporation to be members of this society?" The desirability of a net tender (exclusive of discount) and competition with private traders were among the points raised. The town clerk said he was advised that the Corporation, as a body, could be a member of the Co-operative Society. Eventually the tender was accepted by a small majority of votes.

Leeds

On January 12 the president of the Royal Society (Sir F. Gowland Hopkins) opened the new building of the Department of Chemistry at Leeds University. The

Vice-Chancellor expressed gratitude to those who had subscribed. The library of the late Mr. A. Chaston Chapman, F.R.S., which has been presented by his widow, was subsequently opened. The new premises have been planned on a large scale, the two principal lecture theatres holding 250 and 144 respectively. The equipment embodies the latest ideas in laboratory fittings.

A meeting of the Leeds Branch of the N.P.U. was held on January 9, Mr. N. H. Burns in the chair. The speaker was Mr. R. Garfield Shaw, whose subject was *Real and the Ideal*. The speaker dealt with pharmacy from three aspects, politically, economically and socially; he suggested that it was at the parting of the ways, and that a choice would have to be made between the purely business and purely professional. He urged members to give more support to the Benevolent Fund. A discussion followed in which several members took part, and a vote of thanks to the speaker brought the meeting to a close.

Mr. Geoffrey A. N. Hirst, deputy-chairman and a governing director of Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Sheepscar Works, Leeds, has been elected chairman and managing director of Transcutan, Ltd., Sheepscar Street South, Leeds, 7, a company the formation of which was announced in our issue of December 9 (p. 691). Mr. Hirst has numerous interests in commerce. He is a member of the Grand Council as well as the Executive Committee of the Federation of British Industries; a member of Council of the Leeds Chamber of Commerce; vice-chairman of the Board of Governors of the Leeds Technical College; a member of the Executive Committee of the Drug and Fine Chemical Manufacturers' Association; a member of Council of the Economic League (Leeds District); Fellow of the Royal Economic Society; Fellow of the Royal Statistical Society; and Fellow of the Institute of Company Accountants.

Liverpool

Mr. John Rae, a former secretary of the Liverpool Chemists' Association, who has been seriously ill, is now able to get about a little.

Miss Gertrude Alma Davies, who was instantly killed when a Liverpool tramcar left the rails and overturned on January 3, was employed in the packing department of Evans Sons Lescher & Webb, Ltd., manufacturing chemists, Hanover Street, Liverpool.

Miscellaneous

THE "Daily Mail" Ideal Home Exhibition will be held at Olympia, London, W.14, on April 3-28.

CHESHIRE ANALYST'S REPORT.—The Cheshire county analyst reports that two samples of grey powder examined were only one-quarter and one-thirteenth the necessary mercurial strength. Diluted preparations are dispensed, quite legitimately, by pharmacists, for administration to the very young, containing only a very small proportion of mercury, but these ought to be sold under some other name than grey powder. The report adds that it is, presumably, with such matters that the Ministry of Health Food Legislation Committee (now sitting) will deal.

SPORTING EVENTS.—The Ipswich Chemists' Hockey Club (mixed team) met the Vacationals on January 3, when the chemists lost 4-0. On January 10 the men's team met the R.A.F. Felixstowe, again losing 4-0. On the same date the women's team met the Ipswich

Women's Hockey Club, and they, too, lost 4-0.—Potter & Clarke's football association, "A" XI lost to Walpole 3 goals to 1, in the semi-final of the London Junior cup. This is the first defeat that this team has had this season. The "B" XI beat Oxo—3 goals to 2, in the London Business Houses Football Association Final. The girls' netball section beat Bells, London Business Houses netball section, 13 goals to 8.

IN THE COURTS.—At Woolwich Police Court, London, on January 11, four traders were summoned for having sold dried mint adulterated with dried ailanthus leaves. In one case a warranty was pleaded, and the summons was dismissed; in the other three cases the summonses were dismissed on payment of 10s. 6d. costs by each defendant.—At Marylebone Police Court, London, on January 13, George Wells (54), dealer, with no fixed home, pleaded "Not guilty" to stealing by a trick two bottles of medicine and 15s. 3d. belonging to Mr. Herbert N. Hodgetts, chemist and druggist, Abbey Road, N.W.8. An errand-boy named Harrison said he was sent to a house with two bottles of medicine and 15s. 3d. change. The accused met him outside and handed him an envelope which he said contained £1 and two prescriptions. He handed the accused the medicine and the change, but finding that the envelope contained a plain piece of paper, called a policeman, who arrested the accused. The magistrate commended the boy. The accused was remanded.

Irish Notes

Brevities

At the annual meeting of the North of Ireland Philatelic Society, in Belfast, on January 5, Mr. John Adams, Ph.C., was elected to the committee. Mr. Adams was awarded second place in the Greer cup competition.

At a fancy dress ball held recently in the Loughrea Town Hall, Master Leo and Miss Carmel Barry, children of Mr. Patrick J. Barry, M.P.S.I., were awarded two first prizes in their respective classes. Mr. J. F. Walsh, L.P.S.I., manager of Dillon's Medical Hall, was the recipient of a valuable prize.

At Lurgan Quarter Sessions, on January 9, William Crowe, Portadown, was charged with breaking into the shop of Mr. John Sandford, Ph.C., High Street, Portadown, and stealing articles to the value of £22 5s. A suspended sentence of six months' imprisonment with suspended labour was imposed.

The agenda for the January meeting of the Council of the Pharmaceutical Society of Northern Ireland is interesting, inasmuch as the meeting is to be held for the first time in Londonderry, out of compliment to the president, Mr. John Maxwell, who has not been able to make the journey to Belfast owing to indisposition.

The Irish Medical Committee, at a recent meeting in Dublin, decided to forward to Dr. R. J. Rowlette a letter which had been received from a member advocating the establishment of medicinal herb farms, with the request that he forward the scheme in the Dail. A resolution was passed recommending that samples of medicines, not manufactured in the Saorstát, should be allowed, when supplied to or requested by doctors, to enter without duty.

Belfast

At Belfast Corporation meeting, on January 12, Councillor T. L. Cole, Ph.C., made a protest against the new housing scheme which permitted houses with 500 superficial feet to be built. The rooms of such houses, he said, could not be healthy. The scheme, however, was passed.

At a recent meeting of the Belfast Chamber of Trade, Mr. Todd, Ph.C., introduced the subject of road traffic regulations, and on his motion a resolution was passed recommending to the Ministry of Home Affairs that steps be taken immediately for the better regulation of road traffic.

At Belfast Recorder's Court, on January 6, the case of Dorothy H. Meehan, Maze, co. Down, who had appealed against a sentence of six months' imprison-



MR. G. A. N. HIRST

ment passed on her by the Belfast magistrates for offences against the Dangerous Drugs Acts (*C. & D.*, 1933, I, 556) was mentioned. Mr. Mussel, for the prosecution, now said that the proceedings might be stopped. The appeal was marked "Released without further punishment."

Scottish Notes

Brevities

Persons receiving medical relief from Glasgow Corporation are in future to have free choice of chemists for the dispensing of prescriptions.

Mr. P. McGlashan, chemist and druggist, who is living in retirement in Alyth, Perthshire, has won a prize of £200 in a newspaper puzzle contest.

Natural flowers are becoming popular for windows and interiors of shops. One Scottish chemist was recently asked the price of the flowers, so much were they appreciated.

The number of companies registered under the Companies Act in Scotland during 1933 was 559, with a total nominal capital of £4,606,565. These figures show an increase of £2,044,045 capital and 140 companies over the preceding year.

A correspondent writes:—"Hawking of homoeopathic medicines by unqualified and frequently uneducated persons is causing grave concern to medical men and pharmacists in Scotland. The methods employed by the hawkers are insidious. The whole question of the medical treatment of the nation is a matter requiring the urgent attention of both the medical and pharmaceutical professions."

A correspondent of the Glasgow "Evening Citizen" calls attention to "the practice of certain medical men

who give a prescription to a patient and insist that same must be dispensed in their surgery." It is stated that some even resort to writing the prescription in a private code, so that only their dispenser can decipher it. The letter contends that a medical man should write a straightforward prescription and tell his patient he can have it dispensed anywhere. "Analyst," at a further stage of the correspondence, states that he saw recently a coded prescription which had been dispensed by a shop doctor; it contained $\frac{1}{4}$ oz. of aspirin (valued at one penny) in 1 oz. of flavouring syrup, and 5 oz. of chloroform water (valued at 3d.), and the price charged a working-class patient was 2s. 6d. This, he adds, accounts for the popularity of coded prescriptions among shop doctors. Several chemists have also taken part in the correspondence.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

Wednesday, January 24

Birmingham Pharmaceutical Association, Kunzle's Café, Union Street, at 8 p.m. Whist drive.

Pharmaceutical Society of Great Britain, Eastbourne and District Branch, Queen's Hotel, Eastbourne, at 8 p.m. Mr. E. Saville Peck (vice-president of the Society) on "Some Aspects of the Future of Pharmacy."

Pharmaceutical Society of Great Britain, Sheffield and District Branch, Church House, Sheffield, at 8.30 p.m. Address by Mr. A. E. Young (Leicester).

Thursday, January 25

Pharmaceutical Society of Great Britain, Manchester, Salford and District Branch, Victoria Hotel, at 8.30 p.m. Special general meeting.

Topical Reflections

By Xrayser

Those Statistics of Poisoning

tabulated in the *C. & D.* of January 13 (p. 36), though of great intrinsic interest, are, I fear, as little helpful to departmental compilers of poisons schedules as previous annual statistics have been to the Pharmaceutical Society's Council. You rightly call attention, once again, to the "discreditable solecisms" of the Registrar-General's department. It may be that quite a number are misleading in character and may give rise to wrong conclusions where a Poisons Board contains a minority of experts on poisons. At the same time a few statistics present a clear issue:—Lysol with 334 deaths, carbolic acid with 72, ammonia and its preparations with 31, oxalic acid with 30, and hydrochloric acid with 57. These figures, surely, demolish the case for wider facilities in the supply of domestic preparations containing poisons. It is interesting to compare the 11 deaths by strychnine (probably agricultural) and 23 by hydrocyanic acid with 24 recorded against barbiturates. As the total poison deaths were 848, it would seem to be anything but alarming that these hypnotics claim such a small number. The new scheduling of poisons should be of material interest to the community.

The Goodwill of the Retailer

(p. 23) is a most valuable asset to the manufacturer, whose products, in the majority of cases, are marketed through the retail shop. This goodwill is often difficult to acquire and easy to lose, although I believe that in the latter case thoughtless rather than deliberate action on the part of the manufacturer is often the cause. Many manufacturers appear to have little knowledge of the psychology of the pharmacist, and get the opinion that it is only necessary

to advertise a product for him to keep adequate stocks and do his best to sell them. It is comparatively easy for a pharmacist, if he so disposed and if he is respected in his neighbourhood, to help or to hinder the sale of a proprietary, even if it is nationally advertised and people are thereby sent into his shop. It will often be found that the most successful manufacturers and heads of their departments are pharmacists, who use the knowledge they acquired behind the counter to market successfully their particular products.

The History of Pharmacy

particularly in its later stages, has yet to be written; but in "The Evolution of a Profession" (p. 14) Mr. William Kirkby gives a bird's-eye view of what has happened during the past sixty years in the calling, a period which, broadly, comprises his own practical experience of it. It is true that during a considerable part of the period he has been somewhat outside the hurly-burly of the business side of the craft; but as outsiders proverbially see most of the game, he has been able to gain a clearer insight, and enjoy a wider vision. In my opinion he quite rightly stresses the importance of the coming of the first National Health Insurance Act, as it coincided with a tendency to drift on the part of pharmacists which was very evident to acute observers. The business which it brought to the pharmacist gave him fresh hope for his calling. Mr. Kirkby is an optimist when he considers the future of pharmacy, and it is to be hoped that his optimism will be justified. His remarks concerning our leaders, past and present, are just and true; there have always been loyal and unselfish men who have been quick to seize the occasion and have served their fellows faithfully and well, without thought of reward. I trust that all apprentices have read or will read this very informative, fair and scholarly article.

Legal Reports

Dangerous Drugs Acts.—At Malvern Petty Sessions, on January 10, George Sanders, Ombersley Road, Worcester, was summoned for failing to enter in a dangerous drugs register particulars of drugs obtained on four dates last year. Mr. G. Russell represented the defendant (who did not appear) and pleaded "Guilty." Mr. G. J. Ball, for the Director of Public Prosecutions, said that the defendant, having been a manager of a branch of Taylors Drug Co., Ltd., at Malvern, wrote, as representing the company, to several wholesale houses, ordering, over different periods, substantial quantities of drugs, which he did not enter in the register, but used for purposes of his own. Mr. James Crawford, group manager to Messrs. Taylors, said the defendant gave all sorts of rambling explanations, and nothing definite. He was suspended as the result of investigations. Mr. Russell said his instructions were that the whole of the drugs which the defendant ordered were used in connection with the business. He was a fully qualified chemist, and at the time of the failure to make these entries he was short-handed. He had been going through a period of domestic crisis. The defendant offered to make up the entries, but permission was refused, probably quite rightly. There had been no sequel to this unfortunate omission. A fine of £30, with £20 costs, was imposed.

Dispensing Tested.—At Birmingham Police Court, on January 11, the hearing of a summons against Boots Pure Drug Co., Ltd., in respect of an alleged inaccuracy in dispensing (*C. & D.*, December 9, p. 694) was concluded. Mr. A. Priestley prosecuted for the City Corporation, and Mr. Marshall Freeman, barrister, represented the defendants, who pleaded "Not guilty." The certificate of the Government analyst, for the production of which the case had been adjourned, was handed to the magistrates, and Mr. C. E. Sage, F.I.C., Ph.C., continued his evidence. He said there was no evidence to indicate that the bottle in question contained exactly eight fluid ounces. There was no suggestion of any impurity in the sulphate of quinine. It was an article of commerce of varying strengths, and there could not be a precise standard that would remain static for many hours. No medical man would quibble over the way the prescription had been dispensed. Addressing the magistrates, Mr. Marshall Freeman said the case was of great importance to the defendants, who were jealous of their reputation. The law was never intended to be used to deal with trifles, and the matter before the court was so trivial that it did not justify a prosecution. The chairman said the magistrates regarded the offence as purely technical, and they did not propose to inflict any penalty. The case would be dismissed on payment of £5 5s. costs, and no conviction would be registered.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

ESBOIDS (CHEMISTS), LTD. (P.C.)—Capital £300. Objects: To carry on the business of pharmacists, chemists, druggists, etc. R.O.: 139 Whitechapel Road, E.1.

CHEMICALS MARKETING COMPANY, LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of manufacturers, importers, exporters and dealers in essences, oils and chemicals, etc. R.O.: Aldwych House, Aldwych, W.C.2.

CHAUSSARD & COMPANY, LTD. (P.C.)—Capital £300. Objects: To carry on the business of chemists, druggists, laboratory proprietors, artificial eye and limb makers, bandage makers, etc. R.O.: 122 Newington Causeway, S.E.1.

SULO PRODUCTS COMPANY, LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of manufacturing chemists, etc. Secretary: Arthur Mackay, 96 Finchley Road, N.W.3.

KELLAWAY PHARMACY, LTD. (P.C.)—Capital £500. Objects: To carry on the business of manufacturing, pharmaceutical and general chemists, etc. R.O.: 23 St. Nicholas Street, Bristol, 1.

WALTER PARR FERRIS, LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of manufacturing and dispensing chemists, druggists and opticians, etc. R.O.: 72 and 74 Victoria Street, S.W.1.

VIMOX, LTD. (P.C.)—Capital £500. Objects: To carry on the business of manufacturers and vendors of veterinary and pharmaceutical and patent medicines, and appliances and requisites, etc. R.O.: 15 Lowndes Street, S.W.1.

JOHNS MEDICAL APPLIANCES, LTD. (P.C.)—Capital £500. Objects: To acquire the business of a surgical and medical appliance dealer now carried on by John H. Stanley at 25 The Triangle, Bournemouth, as "Johns Medical Appliance Co."

SOUTH SEAS OIL CO., LTD. (P.C.)—Capital £2,000. Objects: To manufacture, refine and dispose of coconut and other vegetable oils and to carry on the business of oil extractors, chemists, etc. Solicitors: Charles Webb & Son, 8 Pavilion Parade, Brighton.

CLESON, LTD. (P.C.)—Capital £500. Objects: To acquire the business of a manufacturing chemist now carried on by Frank McClellan at 34 Manchester Street, 100 Cromer Street, and Midhope Hall, Argyle Place, King's Cross, London, as "Cleson."

HUBRON RUBBER CHEMICALS, LTD. (P.C.)—Capital £10,000. Objects: To acquire the business of Hugh Brown and John Brown, trading as Latex Chemical Co. of Manchester, and to carry on the business of manufacturers and merchants of and dealers in chemicals for the rubber trades, etc. R.O.: Albion Street, Failsworth, Manchester.

THOMAS GLOVER & SON, LTD. (P.C.)—Capital £20,000. Objects: To acquire the business of manufacturers of surgical appliances carried on by Thomas Glover & Son, Ltd. (incorporated in 1926), at Carlton, Notts, and elsewhere, together with certain of the real and personal property and assets, to adopt an agreement with the said old company and its liquidators, W. B. Keywood and S. H. Godfrey. Solicitors: Godfrey, Berryman & Scott, Victoria Street, Nottingham.

W. J. BUSH & CO., LTD.—Interim dividend on the ordinary shares declared of 4 per cent., payable January 13. The interim dividend for the previous year was 3 per cent.

BOYD'S PHARMACY, LTD., London, E.10. On the petition of Butler & Crispe, Clerkenwell Road, wholesale druggists, Mr. Justice Eve, in the Chancery Division, made an order for the compulsory winding up of Boyd's Pharmacy, Ltd. Mr. Sykes, for the petitioners, said they were creditors for £244 for goods sold and delivered. A demand for payment served on the company was passed on to the receiver appointed by the debenture holders who was in possession. The company did not appear.

In their annual statistical report relating to new companies registered in England during the year ended December 31, 1933, Messrs. Jordan & Sons, Ltd., company registration agents, Chancery Lane, W.C.2, state that, under the class "Chemicals," 11 public companies were registered with a capital of £235,850 and 590 private companies with a capital of £1,412,870. In 1932 the figures were 7 public companies, capital £401,000, and 521 private companies, capital £6,257,989. "Chemicals" is the sixth largest class as regards the total number of registrations.

The Union and the Act

THE North London Pharmaceutical Association held its first meeting of the year at the North Library, Manor Gardens, on January 16, when an address was given by Mr. G. A. Mallinson, barrister-at-law and secretary of the National Pharmaceutical Union, on the work of the Union and the changes brought about by the Pharmacy and Poisons Act, 1933. Mr. W. E. Swanston (president of the Association) was in the chair.

Mr. Mallinson's Address

MR. MALLINSON opened his address with an account of the varied work of the Union, one of whose main objects as a trade organisation was, he said, the protection of the business interests of the chemist. It helped him in connection with National Insurance, and its business services were run at prices lower than elsewhere or, where this was not so, had forced prices down. The Inquiry Department, which kept two members of the staff fully occupied, was the equivalent of the head office of a multiple concern, and at present handled 30,000 inquiries a year. The Chemists' Mutual Insurance Co., Ltd., established by the Union, had saved members £17,000 on purely business insurances and another £3,500 on motor car insurances.

Referring to the defence side of the Union's work, Mr. Mallinson pointed out that in the past year £5,000 had been spent in claims and legal expenses on behalf of members, while the total since the Union was formed amounted to £25,000. They now gave an unlimited indemnity to members, and had so large a reserve in the defence fund that almost any claim could be faced with equanimity. The Union stood between its members and no less than three dozen Acts of Parliament, thirty of which they might infringe without knowing that they existed. Before leaving the subject Mr. Mallinson appealed for support in the efforts to establish a publicity association for pharmacy, which should have its own funds and be ready at any time to counter offensive publicity on the part of competitors or critics.

Turning to the new Pharmacy and Poisons Act, Mr. Mallinson spoke of the sort of trouble that might be met with under its provisions. Compulsory registration, an ideal that many of them had cherished for twenty years, was now applicable not only to the chemist but to his shop as well, which had not been in their minds. They would also have to take greater care of their certificates in future, or pay for new ones, for the inspector would be visiting them more often and the certificates must be exhibited conspicuously. The restriction of titles in the Act was a real gain, for it meant a great deal more control than they had had in the past. Shop registration was also a gain, in that it restricted the word "pharmacy" in a way that it had never been restricted before.

It was difficult to know what they had let themselves in for in the matter of the Statutory Committee. Broadly, it meant that they must not bring disgrace upon pharmacy, but the Committee must be regarded with all seriousness. If a qualified chemist insisted on running a drug store, this might be regarded by the Statutory Committee as unprofessional conduct. Time would show what degree of control could be built up, and it might be similar to that of the General Medical Council over doctors. The Pharmaceutical Society would have to proceed very carefully in this respect, for any apparently unreasonable decisions would be challenged from the beginning.

The restrictions on the retail sale of drugs whereby a chemist's shop would in future not be allowed to have a drug store at the same time might lead to offences, arising more particularly under shop registration. Executors who took over a chemist's shop with a drug-store branch would have to cease one of the businesses, and must see that they did not exceed the time limit of five years, within which they had either to turn the business into a limited company or wind it up. This,

in Mr. Mallinson's opinion, was one of the best parts of the Act, for the executors were often unqualified relatives of the chemist other than his widow, such as sons who refused to qualify, and with them he had no sympathy.

In the Act as it stood the employer was held responsible for offences even if committed by a manager or assistants, but in some circumstances he could throw the onus on to either of them. This would arise in relation with offences which the Statutory Committee would have to consider. As counsel would be allowed to appear before the Committee, it might be an expensive matter for a chemist or his assistant to clear himself, and until January 1 this year he had nowhere to turn. From January 1, however, the Union had been thrown open for defence and other purposes to qualified managers and assistants, who were admitted as associate members in a special section for 10s. a year.

In a reference to the heavy penalties which may be imposed under the new Act, Mr. Mallinson said that the N.P.U. had endeavoured to make these reasonable but not futile. Chemists must remember that they were deterrents to unqualified persons far more than to themselves. In view of these penalties the Union now undertook the defence of its members with regard to offences under the Pharmacy Act, provided they had a case, though it could not pay fines. They had felt that the old objection to having two organisations of chemists on opposite sides in a case could no longer be maintained, especially as the Pharmaceutical Society was now placed practically in the position of a Government department. He hoped, however, that the general relationship between the Society and the Union would not be affected: the best thing for pharmacy was that the organisations should pull together on all problems as far as possible, and he believed that they would be met more than half-way by the Society in their representations on behalf of the retail side of the calling.

Discussion

IN the course of the discussion that followed, MR. CRACKNELL asked whether there was anything in the Act to prevent a registered pharmacist, not himself an authorised seller of poisons, from owning a chain of drug stores, so long as he made no breach with regard to titles. MR. MALLINSON agreed that a man who elected to run his shops as drug stores need not comply with the conditions of an authorised seller of poisons. He thought, however, the Statutory Committee might hold that this was professional misconduct.

Replying to MR. HEARLE, who raised the question of co-operative societies which might have a qualified chemist at one shop and only a drug counter at others, MR. MALLINSON said that they were really in the same position as the owner of a qualified shop with drug-store branches. It might be difficult to say, however, that a business with one counter devoted to the selling of drugs was a business carried on for the retail selling of drugs, and the co-operative societies might be expected to fight the question whether such premises required to be registered under the Act.

With regard to a question by MR. CAMERON whether a shop could be kept open for the sale of drugs during the temporary absence of the chemist, MR. MALLINSON said that they could only hope that the Society's inspectors would be as accommodating in the future as in the past, when it was a question of necessary absence for no more than an hour or two.

MR. SKINNER said that he was glad to see Mr. Mallinson standing at last on the same platform with him. He felt that the position had entirely changed: the Pharmaceutical Council in future was an administrative body, and he agreed that there must be one union or body to defend the whole of those who practised pharmacy.

MR. MALLINSON, in a brief reply, assured Mr. Skinner that the Union was a specialist organisation for the retail trade, and in no way intended to encroach on the Society's province.

Pharmaceutical Society of Ireland

Council Meeting

THE January monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on January 9, the president (Mr. P. J. Fielding) in the chair. Other members of the Council present were Messrs. D. Warwick, F. J. Fitzpatrick, P. Brooke Kelly, D. W. P. Boyd, J. F. Costello, C. Cremen, J. T. Dwyer, J. Gleeson, M. J. Kieran, B. P. Hickey, J. Duggan, W. J. McKnight, J. A. O'Rourke, M. J. Parkes, T. J. Smith and Sir T. Robinson.

VOTES OF SYMPATHY

At the outset of the proceedings THE PRESIDENT moved a vote of sympathy with Miss F. M. Flood, a member of the Council, on the death of her brother, Mr. Thomas J. Flood. On the motion of Mr. O'Rourke a vote of sympathy with Mr. Francis Doyle, M.P.S.I., Dun Laoghaire, on the death of his brother, was also passed. Both votes of sympathy were passed in silence, all members standing.

CORRESPONDENCE

Greetings of the season were received from the Nuncio Apostolic, the Vice-President of the Executive Council, the president of the Pharmaceutical Society of Great Britain, the Council of the Pharmaceutical Society of Great Britain, the president and Council of the Pharmaceutical Society of Northern Ireland, the Pharmacy Board of Tasmania, the Pharmacy Board of Queensland, the president and Executive of the Pharmaceutical Society of Rhodesia, the editor of "The Pharmaceutical Journal," and the Smithsonian Institution, U.S.A.

Letters were read from Mr. F. Monks, thanking the Council on his own and his mother's behalf for telegram of sympathy sent on the death of his father; from Mrs. Doyle, Cabra, thanking the Council on her own and her daughter's behalf for expression of sympathy on the death of her husband; and from Dr. M. R. Whitla, acknowledging the vote of sympathy passed by the Council on the death of his brother, Sir William Whitla.

CHANGE OF NAME

Mrs. A. F. Swanton, *née* McNulty, wrote submitting marriage certificate and desiring change of name in the Register. The application was granted.

REGISTRATION GRANTED

The following submitted Matriculation certificates and were granted preliminary registration:—Messrs. M. A. Slattery, T. Holmes, C. O'Halloran.

Dr. William Macargur Scott submitted L.A.H. certificate and requested to be registered as a pharmaceutical chemist. The application was granted.

CHANGES OF ADDRESS

The following changes of address were notified:—

Miss F. M. Flood, M.C.P.S.I., from Olney, Terenure, to 140 Terenure Road North, Terenure; Dr. A. T. McKay, M.P.S.I., from 86 Carnot Terrace, S.C. Road, Rialto, to 64 S.C. Road, Rialto; Mrs. Carney, M.P.S.I., from 95 Terenure Road East, to 5 Terenure Road East, Rathgar; Mr. T. W. Campion, M.P.S.I., from 1 Commercial Buildings, W. Clontarf, to 48 Clontarf Road, Dublin; Mr. G. D. Golden, M.P.S.I., from Pearse Square Medical Hall, Fermoy, to Bridge Street, Westport; Miss C. Levin, Ph.C., from 20 Grove Park, Rathmines, Dublin, to 7 Denning Road, Hampstead, London, N.W.3; Mr. D. N. Stewart, Ph.C., from 3 Victoria Terrace, Portstewart, to Glenbank, Castlerock, Derry; Mr. A. J. Walmsley, Ph.C., from Delbrugarn, Up, Assam, India, to Vergemount Hall, Clonskeagh, co. Dublin; Mr. J. J. Burke, Ph.C., from Seymour's Medical Hall, Ennis, to The Modern Pharmacy, Dunbavin, co. Wicklow; Mr. T. J. White, Ph.C., from The Pharmacy, Fermanagh Street, Clones, to The People's Medical Hall, Cootehill, co. Cavan; Mr. Kevin Doherty, Ph.C., from Clonmany, Donegal, to Main Street, Buncrana, co. Donegal; Mr. H. Hoskins, Ph.C., from The Medical Hall,

Clonakilty, to Church Street, Rosscarbery, co. Cork; Mrs. Swanton, *née* McNulty, Assistant, from 12 Pope's Quay, Cork, to The Medical Hall, Castletownbere, co. Cork; Mr. T. Kennedy, Assistant, from Inverbeg, Larne, co. Antrim, to 28 Birkdale Grove, Eccles, Lancs.; Mr. R. B. Abernethy, Assistant, from 190 Ravenhill Road, to 225 Holywood Road, Belfast; Mr. M. F. McBride, Assistant, from 2 Patriotic Terrace, Brookfield Road, Kilmainham, to 6 Brookfield Road, Kilmainham; Mr. P. Macarthur, Assistant, from 47 University Street, Belfast, to Cessnock, New South Wales, Australia; Mr. M. J. Griffith, Assistant, from 2 Melrose, Ranelagh, co. Dublin, to Melrose, 53 Ranelagh Road, Dublin; Miss A. E. McElroy, R.D., from 40 Albert Street, to 72 Cromwell Road, Belfast; Mr. A. Ingram, R.D., from Dunfanaghy, co. Donegal, to 484 Paisley Road, Glasgow; Mr. D. Blackwood, R.D., from Aughnacloy, co. Tyrone, to 54 English Street, Armagh; Mr. John F. McKee, R.D., from c/o R. McBirney & Co., Ltd., Annalong, co. Down; Mr. G. McCreight, R.D., from 297 Albertbridge Road, to The Temple Pharmacy, 225 Newtowndale Road, Belfast; Mr. W. J. Jenkins, R.D., from Carrick, Loughbrickland, co. Down, to County Down, S. Afr.

REPORTS OF COMMITTEES

The House, Law and Schools Committees' reports were submitted and approved.

The report of the Certificates and Declarations Committee stated that fourteen candidates had entered for the January Licence examination, of which number one had withdrawn and thirteen were going forward for examination. There was one candidate entered for the Registered Druggist examination.

On consideration of the Housing Subcommittee's report the Council went into committee, following which a motion was adopted on the proposition of Mr. Fitzpatrick, seconded by Mr. Warwick, that Mr. Geo. L. O'Connor be appointed architect to advise and assist the Housing Subcommittee.

DEATHS

The Registrar reported on the deaths of Messrs. P. S. Pearse, Ph.C.; R. Collis, Ph.C.; T. E. Yarr, C. J. McQuaid, R. Northey, T. J. Glynn, Assistants; R. Verner, R.D., R. J. Davis, R.D.

STATUTORY LETTERS

The registrar reported that letters had been sent out under Section 25 to the following and that no replies had been received:—J. Morrow, R.D., T. J. Maye, Ph.C.; Qualified assistants—F. M. L. Bell, F. L. Curry, R. Edgar, P. Fitzgerald, M. M. Foley, C. A. Geary, A. J. Goodall, J. J. Hamill, K. Haydock, R. A. Hopple, C. W. Imlay, C. B. Johnston, C. Kelly, J. Law, W. Martin, R. A. McEwen, J. W. McKay, M. P. McSweeney, M. Munnely, H. P. Rees, J. D. Ryan, M. V. Shaw, J. J. Sheridan, A. J. Smyth, W. E. Stevenson, D. Sullivan, G. L. Taylor, C. H. Waddell, S. Watt, J. C. Watts, H. R. Woodhouse, and M. J. Wylde.

CANVASSING TO BE A DISQUALIFICATION

THE PRESIDENT moved the following motion standing in his name:—"That canvassing of any kind be a disqualification for any appointment to be made by the Society." There were many reasons, he said, why they should adopt such a motion. Canvassing had now become a fine art. Not alone would some candidates buttonhole a man in the street, but even the sanctity of convents and monasteries was invaded to get help to secure an appointment. Personally he was even followed by telegram to Dublin. If that sort of thing was allowed to go on, life would become miserable. He was sure other members of the Council were pursued just as he was. It would help to retain some peace and dignity for the Society if his motion went through.

MR. WARWICK, who seconded the motion, said he was not in favour of canvassing, but if a candidate called

personally on a member of the Council, would that, he asked, be regarded as canvassing?

MR. PARKES: I don't think it is possible to prevent canvassing. You might as well try to stop the tide with a pitchfork.

MR. FITZPATRICK said he would support the president's motion.

MR. GLEESON: I am in agreement, Mr. President, with your motion in theory, but I don't think it is workable in practice. It's very hard to make a resolution of this kind foolproof, or to know where to draw the line.

MR. BROOKE KELLY: Draw up rules and regulations showing what canvassing is.

MR. KIERNAN: The more rules you make, the more trouble you will have.

THE PRESIDENT suggested that a letter or circular could be sent to candidates intimating that no canvassing was allowed. If the candidate got a friend to call upon members, that could be regarded as canvassing.

MR. FITZPATRICK said that the usual procedure was to suggest to the candidates to send twenty-one copies of their testimonials into the office, from which they were sent out to the members of the Council. When the members got these copies of candidates' qualifications and testimonials, they had all they wanted.

MR. BROOKE KELLY: If the candidate knows that can-

vassing will disqualify him, that is all we want. Let the candidate himself determine what is canvassing.

MR. PARKES: If a man calls upon me to canvass, am I expected to report him to the Council?

MR. CREMEN mentioned that the adoption of the resolution might lead to abuses. If a candidate were wicked enough, he might get someone to go round canvassing for a rival and have the rival candidate disqualified.

MR. PARKES: The only way to stop canvassing is to do what the Government have done when they created an Appointments Board of whom nobody knew the members.

MR. O'ROURKE thought that if canvassing was eliminated, some provision should be made to give the Council an opportunity of seeing the candidates personally.

The president's motion was unanimously adopted.

ELECTIONS AND NOMINATIONS

The following were elected members of the Society:—Miss M. Galvin, Dr. P. J. Bourke, Messrs. P. J. Farrell, P. J. Fox, T. A. Healy, W. T. Turner, and H. Weir.

The following were nominated for membership of the Society:—Messrs. E. Collins, Killorglin; G. Gilmore, 10 Patrick Street, Kilkenny; G. O'Donnell, 46 Cabra Park, Dublin; M. O'Sullivan, O'Sullivan's Medical Hall, Cobh; and Miss T. Young, The Medical Hall, North Street, Skibbereen, co. Cork.

Proprietary Articles Trade Association Council Meeting

THE quarterly meeting of the P.A.T.A. Council was held at the Hotel Russell, London, W.C.1, on January 11.

DEATHS

THE PRESIDENT said that since their last meeting they had lost, through death, three of their former colleagues on the Council. He referred, first, to Mr. George Barclay, who had been actively associated with the late Sir William Glyn-Jones in the foundation of the P.A.T.A., and had been president, and for many years treasurer, of the Association. They had also lost Mr. J. A. South, who had represented Messrs. Steedman on the Council, and was president in 1923. Dr. George Coull had represented Raimes, Clark & Co., Ltd., since 1925, on the wholesale section of the Council. A resolution of sympathy with the relatives of Mr. Barclay, Mr. South and Dr. Coull was passed by the Council in silence.

NEW MEMBERS WELCOMED

THE PRESIDENT extended a welcome to the new members of the Council—Mr. E. C. Pearce (Horlick's Malted Milk Co., Ltd.), Mr. F. Moore (Thomas McMullan & Co., Ltd.), Mr. W. O. McBryde and Mr. W. S. Howells. These gentlemen acknowledged the welcome, and expressed the hope that they would be able to further the interests of the Association.

MR. P. F. ROWSELL AND MR. H. H. MARSHALL THANKED

THE PRESIDENT said that, as a result of the election in the retail section, the Council had lost two members who had rendered great service to the cause of price maintenance. He moved the following resolution:—

"The Council desire to place on record their deep appreciation of the very valuable services rendered to the cause of price protection and to the Association generally by Mr. P. F. Rowsell during his thirty-six years' unbroken membership of the Council and the Executive Committee, and of those of Mr. H. H. Marshall during his nine years' membership of the Council."

Many members of the Council paid tribute to the valuable work done by Mr. Rowsell and Mr. Marshall, and the resolution was passed unanimously.

MANUFACTURERS' SUBSCRIPTIONS

The Council, after considering the question of increasing manufacturers' subscriptions, decided to make no

material change at present. They endorsed the decision taken by the Executive Committee in December, that from January 1 "additional articles" should be charged at 10s. 6d. instead of 5s., and that where "additional articles" are, in the opinion of the Executive Committee, nationally advertised, the additional article subscription rate should not apply, but that such preparations should pay the full manufacturers' subscription of £6 6s.

STOLEN PROPRIETARIES

It was reported that evidence has been received to the effect that considerable quantities of P.A.T.A. goods have been stolen from the warehouses and shops of manufacturers, wholesalers and retailers, and that, on occasion, such goods had been found in the possession of price-cutters. The Council suggested that manufacturers, wholesalers and retailers who lose proprietary articles in this way should advise the Association immediately.

RESTRICTION OF WHOLESALE DISTRIBUTION

The Council considered resolutions passed by local associations, urging the Council to take effective steps to reduce the number of wholesalers distributing P.A.T.A. goods, on the ground that the unnecessarily large number of such wholesalers is detrimental to the effective functioning of the P.A.T.A. The Council resolved that the policy of restricting the number of wholesalers handling P.A.T.A. goods which they have already affirmed shall be continued without abatement.

FREE GIFT SCHEMES

Having considered resolutions passed by chemists' associations in London and Belfast regarding free gift schemes operated by P.A.T.A. manufacturers, the Council decided that it was necessary that such schemes should be discouraged. They considered, moreover, that when manufacturers had put forward schemes of this nature, it was important that they bear in mind the principles of price maintenance and take due care to ensure that their schemes do not facilitate price cutting. The Council required that full particulars of such schemes should be submitted to the P.A.T.A. before they are put into force, and that in all cases manufacturers should be required to make arrangements to deal with stock held by the trade at the time the schemes come into operation.

"DE-STAMPED" PROPRIETARIES

The Council considered a resolution to the effect that the P.A.T.A. should insist that the price of every article on the Protected List sold stamped should be the price of the same article sold unstamped plus the cost of the revenue stamp. It is the view of the Council that, so long as reasonable margins of profit are assured to retail and wholesale chemists on unstamped P.A.T.A. articles and the stamped packs of such articles are not sold to the public at lower prices than those fixed for the unstamped packs, it is not within the province of the P.A.T.A. to interfere with the freedom of action of manufacturers in determining the prices at which they may sell the stamped package to the trade.

ENFORCEMENT OF AGREEMENTS

The secretary reported that during the past quarter a number of agreements embodying the payment of liquidated damages for breach have been obtained from traders as a condition of their removal from the Stop List. He also reported that since the last meeting successful action had been taken in the High Court in respect of one such agreement.

ELECTION OF PRESIDENT

Mr. N. N. Armitage was proposed as president by Mr. John Keall, who said that during his three years' chairmanship of the retail section and his many years' membership of the Council, Mr. Armitage had served the Association whole-heartedly, and had earned the esteem and confidence of his colleagues. Mr. Armitage, said Mr. Keall, was intensely and personally interested in the enforcement of price protection. The nomination was seconded and supported by several members of the retail section, by Mr. F. J. Smith on behalf of the wholesale section, by Mr. C. H. Ratcliffe on behalf of the manufacturers' section, and was carried unanimously.

Mr. Armitage then took the chair and thanked the Council for the honour conferred upon him. He said he

regarded his election as president of the P.A.T.A. as the crown of his life in, and his efforts on behalf of, phar-macy. He would endeavour to carry on the good work of his many illustrious predecessors, using as his guide the founder of the organisation, the late Sir William Glynn-Jones, and to uphold the traditions of the office. He questioned whether the present Protected List of the P.A.T.A. was not too large, and considered that a smaller list representing 100 per cent. protection would be preferable to the present somewhat unwieldy list.

TRIBUTE TO RETIRING PRESIDENT

The President paid tribute to the services rendered to the Council and to the Association by the outgoing president, Mr. W. L. Edwards, during his year of office. He had held the balance evenly between the three sections of the Association, and had presided over the deliberations of the Council and the Executive with courtesy and efficiency.

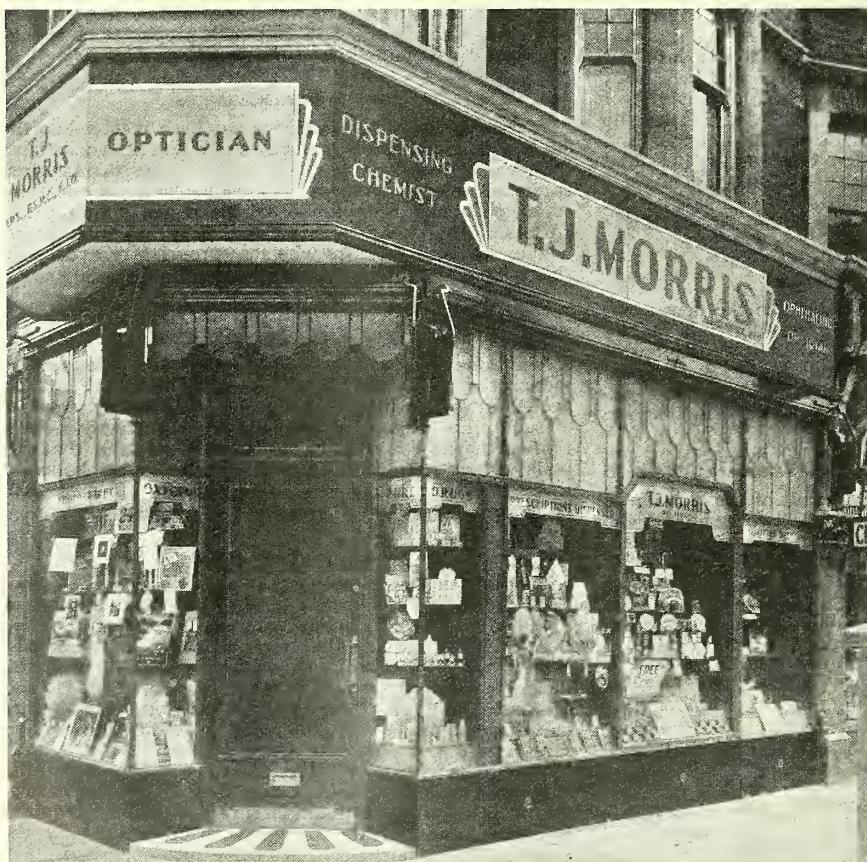
Mr. F. J. Smith seconded the motion, which was supported by several members of the Council and carried unanimously.

Mr. Edwards, in acknowledgment, said that he had had a very energetic and interesting year, and his greatest happiness had been to do what he could to forward the interests of the P.A.T.A.

ELECTION OF VICE-PRESIDENTS, TREASURER AND EXECUTIVE

The Council elected as vice-presidents Dr. J. J. Pilley (manufacturers' section), Mr. A. T. Hall (wholesale section) and Mr. Thomas Marns (retail section). Mr. F. J. Smith was re-elected chairman of the wholesale section. Mr. A. T. Webb was re-elected honorary treasurer.

The Council elected to the Executive Committee the following: The president, vice-presidents, the treasurer, the chairman of the Trust Company (Mr. C. H. Ratcliffe), and Messrs. W. L. Edwards, J. Godber, A. Higgs, John Keall, J. Milner, A. Ridout, E. J. Smith and S. Watson.



MR. T. J. MORRIS HAS RECENTLY INSTALLED A NEW SHOP FRONT OF BRONZE AND MAHOGANY, WITH NOVEL FEATURES, AT HIS MUSWELL HILL SHOP, LONDON, N. THE LARGE WINDOW HAS BEEN DIVIDED TO TAKE THREE DISPLAYS, THE CENTRE ONE BEING RECESSED, THUS DOING AWAY WITH THE FLAT APPEARANCE. THE DESIGN OF THE LEADED LIGHTS IS CARRIED OVER THE DOORWAY IN THE FORM OF A VALANCE, AND THERE ARE GLASS PELMETS AT THE TOPS OF THE WINDOWS IN PLACE OF THE USUAL WRITTEN TABLETS. THE FACIA IS OF DECORATED GLASS, WITH BLACK BACKGROUND; THE NAME IS IN RED LETTERS OUTLINED IN BLACK ON A CREAM PANEL. THIS FRONT WAS DESIGNED AND INSTALLED BY RUDDUCK & CO.

Festivities

Nottingham Junior Dance

A SUCCESSFUL dance which was arranged by the younger members of the Nottingham and District Branch of the Pharmaceutical Society, under the chairmanship of Mr. F. A. Bates, was held at the Albert Hotel on January 11. Over 1,100 were present and the event, which was the first for several years, proved to be most enjoyable.

South-Easterners Start the Year Well

THE New Year social and dance of the South-East Metropolitan Branch of the Pharmaceutical Society, held at Woolwich Town Hall on January 4, proved as great a success as its predecessors. The number of guests was somewhat smaller, but what was lacking in numbers was easily adjusted in jollity. Captain J. J. G. Hay and Mrs. Daisie Hay held a reception, after which dancing commenced. The New Arcadians dance band provided the music. Mr. C. Happold conveyed the season's greetings to the president in a brief speech, to which Captain Hay made a suitable reply.

Manchester Whist Drive

THE second whist drive of the season, organised by the Junior Branch of the Manchester Pharmaceutical Association, was held on January 4. The attendance was not up to the usual number, but a very enjoyable evening was spent. The following were the winners:—*Ladies*, (1) Mrs. Pitman; (2) Mrs. Goldsmith. *Gentlemen*, (1) Mr. Cheadle; (2) Mr. Wood. The prizes were presented to the winners by Mrs. Simmons, who was accorded a cordial vote of thanks for her services by Mr. W. Edwards. The prizes were given by the Junior Branch, which also received the thanks of the company. The duties of M.C. were ably carried out by Mr. H. Steinman.

Exonians at Whist

THE annual whist drive and dance of the Exeter and District Branch of the Pharmaceutical Society was held on January 10, and again proved to be a very successful function. The company was so large that the ballroom was inadequate and another room had to be brought into commission. As usual, the arrangements by a representative committee were all that could be desired, and Mr. A. C. Milton and Mr. F. Southerden (joint secretaries), in particular, were to be congratulated. The programme opened with the whist drive, for which Mr. Milton was an admirable M.C. Dinner was a jolly affair, with the guests wearing carnival novelties and the augmented orchestra playing popular numbers. Among the guests were the Mayor and Mayoress (Mr. and Mrs. T. J. W. Templeman), the Sheriff and Mrs. R. J. Rew, and Mr. A. C. Reed, M.P., and Mrs. Reed. Dancing followed and, during an interval, the Mayoress, at the invitation of Mr. W. B. R. Arnold (chairman of the Branch), distributed the whist prizes. The donors of the prizes were Broom, Reid & Harris, Boots, Ltd., Evans, Gadd & Co., Ltd., Hinton Lake & Son, Ltd., Holman, Ham & Co., Ltd., A. Luxton, Milton & Son, Wynne Tighe & Son, A. de St. Dalmas & Co., Ltd., Butler & Crispe, The British Drug Houses, Ltd., Burge, Warren & Ridgley, Ltd., O. Comitti & Son, Dubarry Perfumery Co., Ltd., Ensign, Ltd., S. Maw, Son and Sons, Ltd., May, Roberts & Co., Ltd., Kodak, Ltd., and R. J. Reuter Co., Ltd.

Staff Functions

JOHNSON & SONS, MANUFACTURING CHEMISTS, LTD., held their annual supper and dance, on January 5, at the King Edward Hall, Finchley. The event was attended by about 200 members of the staff. During the evening a presentation from the employees was made to each of the directors, Mr. E. Bernard Cook and Mr. Frank G. Murray.

THE annual dinner and dance of the United Chemists' Association, Ltd., was held on December 28. There was

a large attendance. Mr. Harold Miller (chairman and managing director) presided, and the company included Messrs. J. Hearle, G. W. Evans, C. H. Griffiths, and A. E. Young (directors), H. Ruffell Gibbons (manager of the Midland Bank, Cheltenham), Alderman C. H. Margrett, Mr. Percy Haddock and Mr. and Mrs. C. K. Gregory. After the loyal toast the "United Chemists' Association, Ltd.," was proposed by Alderman Margrett, who said their Association appeared to have gone from strength to strength. That was due, in no small measure, to the care and forethought of the directors. Mr. Hearle and Mr. Evans responded on behalf of the Association. Mr. Gibbons, proposing "The Directors," said the directors, management and staff worked together for the common good. In reply, Mr. Griffiths said they were all workers in one of the grandest pharmaceutical factories in the country. Mr. Young also responded. The chairman proposed "The Employees" and said a business such as theirs could not be a success unless they had loyal employees. They had a wonderful staff, each imbued with the desire to do his best. Mr. P. J. Radford (secretary of the company), Mr. J. W. Hansen (works), Mr. B. H. Richards (representatives), Mr. R. Dance (transport) and Mr. J. Bentley (office) responded. Mr. R. T. Spargo toasted "The Ladies and Visitors," for whom Miss E. Marshall Sowry and Mr. Percy Haddock replied. It was stated that the board of directors had made a contribution of £26 5s. to Cheltenham General Hospital and £20 to the Christmas Unemployed Relief Fund.

Reading Annual Function

THE annual dinner and dance of the Reading Branch of the Pharmaceutical Society was held at the Cadena Café, Reading, on January 10. Mr. C. C. Butler presided, and was supported by the Mayor of Reading (Alderman Miss Sutton). The company included Mrs. C. C. Butler, Mr. and Mrs. A. Greenwood Watkins, Mr. W. J. V. Fowden, Mr. and Mrs. E. C. Cripps, Mr. and Mrs. R. Bluring, Mrs. B. H. Butler, Mr. and Mrs. F. W. Vasey, Mr. J. W. Todd, Mr. and Mrs. G. Green, Mr. and Mrs. J. R. Butler. Mr. J. W. Todd, in proposing the toast of "The Pharmaceutical Society," stated that the Society had had a conversion, whether for the better he was not quite certain. There was a danger that they would lose some of the old enthusiasm for the Society because it was no longer quite as voluntary as it used to be. One of the difficulties which they had to contend with was the fact that they were extremely scattered units. They had little opportunity of hearing and seeing the leaders of their craft, and the result was that they were apt to be very disorganised. The only way in which they could make up in some measure for this was by close attention to the various articles which appeared in their trade journals, and by studying the views of the leaders of their craft whenever they got the opportunity. Mr. A. Greenwood Watkins (vice-chairman), in reply, said the passing of the Pharmacy and Poisons Act was the most important event of the past year for them. The result of that Act was impossible to foresee, but it was necessary for them all to work in harmony. The pharmacist was a man on whom the public could place the utmost reliance, and it was the duty of their Society to see that the men who came into the profession were properly trained to carry out the work they had to do. Mr. F. W. Vasey proposed the health of "The Guests." He referred in glowing terms to the social work of the Mayor of Reading, and also of the services rendered by Mr. W. G. Blair as clerk to the Reading Insurance Committee for the past twenty-one years. The Mayor of Reading, in reply, described a pharmacists' dinner as a new experience for her, and it was, she added, one of the most pleasant. The chairman expressed thanks to the secretary, Mr. G. Green, for the amount of work he had done in connection with the organisation of the function. The remainder of the evening was spent in dancing.

Association Meetings

Belfast.—A special meeting of the Executive Committee of the Ulster Retail Drug Trade Association was held, on January 11, to consider the proposed apprenticeship indenture form as formulated by the Pharmaceutical Society of Northern Ireland. Mr. W. Martin presided, and there was a full attendance. After an exhaustive discussion, in which all took part, it was unanimously decided that the indentures should not be adopted. The following resolutions were passed unanimously, and the secretary was directed to send copies to the Ministry of Home Affairs and the Londonderry Chemists' Association:—"At a special meeting of the U.R.D.T.A. Executive, called to consider the proposed official form of indentures, the following resolutions were unanimously adopted:—'That the Pharmaceutical Society of N.I. be requested to take immediate steps to hold up the proposed indentures until the trade had an opportunity of considering same'; 'That this meeting is opposed to the present form of indentures issued, controlled and enforceable by the Pharmaceutical Society of N.I. This opposition is mainly due to the fact that no scheme for the limitation of apprentices has been formulated.'"—The monthly meeting of the Executive Committee was held earlier. The president (Mr. W. Martin) occupied the chair, and there was a full attendance. A letter from Dr. Trimble, chief tuberculosis officer of Belfast, was read advising that, subject to the approval of the City Council and to the sanction of the Ministry of Home Affairs, the Tuberculosis Committee had agreed that the N.H.I. system of pricing prescriptions and remunerating chemists be substituted for the system at present in operation in respect to non-insured tuberculosis patients, but that the Committee reserves the right to decide what preparations may be dispensed by pharmaceutical chemists and what products may be dispensed only at the institutes. Satisfaction was expressed at this successful result. The proposed form of apprenticeship indenture as drawn up by the Pharmaceutical Society of Northern Ireland was read by Mr. Shinner, who inquired if it would be permissible to add clauses or make alterations to suit individual requirements. Price alterations were considered and passed.

Edinburgh.—The third meeting of the present session of the Edinburgh Chemists', Assistants' and Apprentices' Association was held on January 12, Mr. W. A. Beattie in the chair. Mr. W. Stout exhibited and read notes on *Some Botanical Specimens*, which included cinchona bark, cinnamon bark, mezereon coming into flower, the fruit of the baobab or cream of tartar tree, *Adansonia digitata*, seed of the vegetable ivory tree, *Phytelephas macrocarpa*, cotton seed capsule, and the mahogany bean from South Africa. On the motion of Mr. Blackie a cordial vote of thanks was awarded to Mr. Stout. The other communication was on *Notes and Queries*, by Mr. Eric Knott (see p. 72). On the motion of Mr. Hill a cordial vote of thanks was awarded to Mr. Knott.

Liverpool.—An interesting and instructive evening was spent by members of the Liverpool Chemists' Association on January 11, when Dr. C. Theodore Green dealt with *British Fungi: Their Place in Nature*, illustrating his talk by a series of lantern slides. The meeting was presided over by Mr. H. Humphreys Jones, who read a letter from the secretary of the Pharmaceutical Society thanking the Association for the excellent contribution of over £87 recently made to the Benevolent Fund. Introducing the lecturer, the chairman remarked that he could well remember the work of Dr. Green over thirty years ago. He always associated their lecturer with "The Fauna of Liverpool." In introducing his subject, Dr. Green referred to the origin of the word "toadstool." The actual food value of the fungi, he remarked, was particularly small, as they contained from 80 to 90 per cent. of water. Much as the fungi were maligned, they were an important part of nature's machinery, and without them life on this planet would be almost unbearable. It seemed a great thing to say that we should not be able

to carry on our day's work without the fungi, but such was the case. Mr. Wallbridge proposed a vote of thanks to the lecturer, Mr. H. Wyatt (president) seconding, said that as an old member of the Association he had heard many lectures, but he had never seen anything even approaching the series of beautiful slides shown by Dr. Green. The lecturer, in reply, thanked Mr. Martin Hughes for operating the lantern.

London (S.W.).—At a meeting, on January 12, of the South-West London Chemists' Association, presided over by Mr. W. A. Shakerley, an interesting discussion on *Youth and the Future Welfare of Pharmacy* was opened by Mr. E. Neville Browne (secretary of the Association and Branch). Mr. Browne said it was difficult to disregard the shortcomings of present-day pharmacy, which were mainly traceable to happenings of the past. Youth, undoubtedly, had every reason to offer thanks to those who, in the past, had rendered service to pharmacy by their experience and valuable time. In defining his conception of youth as applied to pharmacists, he would evasively answer by saying that he would not agree that one was too old at forty, but alongside that expression he would say one was mighty useful at thirty. From information which he had sought, he found that the affairs of pharmacy were, in the main, conducted by three bodies, having executive councils, which, taking the retail section of one with all the council of the other two, aggregated fifty-one members, of whom only one appeared to be under forty years of age. Of the two local associations he had considered, youth appeared to be better represented. Why, he asked, was youth not represented on the premier organisations? On reflection it was obvious that any youth who was eighteen during any of the war years joined the Forces, and the result was unhappily recorded on the tombs in Europe's battlefields. To-day there was a gulf between the young pharmacist and the older man who customarily attended chemists' meetings. Future political parties would no doubt thrust a State medical service upon them. What, he asked, were the older men doing about it? The younger man thought there was nothing being done. Unfair competition in the wine and spirit trade appeared to have been checked by the method of justices' licences, and the speaker suggested that this method be applied to the chemists' trade. He considered that the councils of pharmacy had produced nothing spectacular or original for years. The Pharmacological Laboratories was not an original scheme. The biggest stumbling block in the councils of pharmacy was precedent. One was told one could not do this or that, it would create a precedent. What was lacking on the executive bodies was virility and the spirit of adventure, which youth alone could supply. Mr. Browne suggested that associations and branches should nominate youth to attend the conferences of the Society, N.P.U. and P.A.T.A., in the proportion of at least 50 per cent., and to create the precedent of providing reasonable expenses for the young man. He suggested, further, the formation of a "League of Young Pharmacists" as a training ground, where youth could discuss with youth the present and the future. Animated discussion ensued, and the Association members promised support in assisting the formation of a League of Young Pharmacists. The following resolution was carried, and was to be sent to the Pharmaceutical Society, N.P.U., and P.A.T.A.:—"That this Association considers it desirable, in the interest of the future of pharmacy, that more young men should take an active interest in pharmaceutical affairs, and urges all speakers from your organisation, when paying visits throughout the country, to urge the younger men to take this active interest." A discussion was then opened upon the subject of *Gift Schemes* by Mr. D. A. Rees, and the following resolution was passed:—"That this Association would welcome the cessation of all gift schemes as not being in the best interests of manufacturers, distributors and the public." A vote of thanks to the speakers was proposed by Mr. Peasnell.

Marriages

IRVINE—NUTTALL.—At Burnley, on January 10, Robert Watson Irvine, chemist and druggist, to Joan F. Nuttall.

MARSH—FOGGO.—At Highfield Congregational Church, Rock Ferry, Birkenhead, on January 6, Oliver Marsh, chemist and druggist, Wallasey, to Beatrice Helen Foggo.

WILSON—MOON.—At Clubmoor Methodist Church, Liverpool, on January 15, Godfrey Wilson, chemist and druggist, Southport, to Dorothy Wilhelmina Moon, chemist and druggist, Liverpool.

Deaths

JACKSON.—At 10 Carlton Mansions, Stamford Hill, London, N.16, on January 5, Mr. Lionel Alfred Jackson, founder and proprietor of the London Rubber Co., Elarco House, 221 Old Street, E.C.1, aged forty. Mr. Jackson, who was born in London, commenced business in Lower Clapton Road, E., in 1915, after having been rejected for military service owing to the effects of a severe operation. He removed before long to 183 Aldersgate Street, E.C.1, where his business continued to expand till it was occupying five floors; as recently as last month a removal to still larger premises at 221 Old Street took place, his business having been built up by constant endeavour and hard work. Mr. Jackson's genial personality made for him a wide circle of friends, and he was well liked and popular with all. His employees have lost a good friend who was always considerate and just. In his younger days Mr. Jackson was a very keen sportsman, but of recent years had found recreation in motoring.

KEY.—At Kirkcaldy, on January 14, Mr. George Brown Key, chemist and druggist, aged eighty-two. Mr. Key died as the result of a road accident that happened on January 13. He received his early training with Frazer & Green, Ltd., Glasgow, and commenced on his own account at Kirkcaldy in 1876. He is survived by a widow and two sons. Of late years his son, Mr. W. J. M. Key, chemist and druggist, has been associated with him in business.

LEEMING.—At Guisborough, Yorks, on January 15, Mr. Alfred John Leeming, M.P.S., beloved husband of Angila Leeming. Mr. Leeming qualified in 1906.

MACALISTER.—At Cambridge, on January 15, Sir Donald MacAlister, Bt., president of the General Medical Council, 1904-31, aged seventy-nine. Sir Donald MacAlister was closely associated, for the greater part of his life, with the Universities of Cambridge and Glasgow. He was a member of the Pharmacopoeia Committees of the General Medical Council in 1898 and 1914, and was president of the Council almost up to the appearance of the present British Pharmacopoeia. In 1902 he was elected an honorary member of the Pharmaceutical Society of Great Britain. Sir Donald had brilliant gifts, and his speech at the British Pharmaceutical Conference banquet at Glasgow in 1925 will long be remembered by those who had the good fortune to be present on that occasion.

PAGE.—At Great Yarmouth, recently, Mr. Henry Skikelthorpe Page, chemist and druggist, aged sixty-two.

WALSHE.—At 110 Pembroke Road, Dublin, on January 11, Mr. Thomas Henry Walshe, L.P.S.I., Medical Hall, Howth. Mr. Walshe passed the Licence examination in 1893.

WILD.—At Exeter, on January 1, Mr. George Herbert Wild, Ph.C., aged sixty-six.

Personalities

MR. FRANK L. MANNING, M.P.S., Knutsford, asks us to announce his engagement to Anne, younger daughter of Mr. David Sinclair, Cathcart, Glasgow.

MR. ERNEST SKUES, chemist and druggist, vice-president of the South-West London Chemists' Association, has been elected chairman of the Tooting and District Chamber of Commerce.

MR. F. E. BURDETT, managing director of M. Roger-son & Son, Ltd., chemists, Bradford, which business has been acquired by Boots, Ltd. (see p. 77), went there in 1907 from Wakefield, and in two years became a director; in 1917 he became managing director. Mr. Burdett is this year's chairman of the Bradford Branch of the Pharmaceutical Society; in 1920 he was chairman of the Bradford Pharmacists' Association and was previously secretary. He holds office in the Bradford Chamber of Trade and the Bradford Publicity Club, and has various other local interests. Mr. and Mrs. Burdett sailed on January 13 for a tour in South Africa.

MR. NATHANIEL NEWBORN ARMITAGE, Ph.C., 114 Tong Road, Leeds, the newly elected president of the Proprietary Articles Trade Association, has been a member of that body since 1921. Mr. Armitage was born at Hatfield, Doncaster, on May 24, 1873. His father, the late Mr. Nathaniel Armitage, who was a pharmacist, went to Leeds in 1884 and his son served his apprenticeship to him. Mr. N. N. Armitage studied science at the Yorkshire College (now Leeds University) and the Leeds Technical School.

In 1894, in the South Kensington examinations, he took first-class honours in practical inorganic chemistry, being bracketed first in all England. He entered the Westminster College of Pharmacy in 1895, taking medals in chemistry, pharmacy, botany and *materia medica*. He passed the Minor examination in October 1895, and the Major examination three months later. For thirty years Mr. Armitage has been a strenuous worker for pharmacy, locally and nationally. On the coming into force of the first National Health Insurance Act he was made the first vice-president of the Leeds Pharmaceutical Committee, and on the death of Mr. Pilkington Sargeant he took his place as chairman; this position he held until three years ago. During four years he was president of the Leeds Chemists' Association, afterwards being its treasurer; he has also held the office of chairman of the Leeds Branch of the Pharmaceutical Society and the Leeds Branch of the N.P.U. He is vice-president of the Local Executive Committee in connection with the coming visit to Leeds of the British Pharmaceutical Conference. Mr. Armitage has always been an enthusiastic supporter of price maintenance, and his father was one of the very first members of the P.A.T.A. He has done excellent work in the retail section and on the Executive, of which he has been a member the past three years. Mr. Armitage is a fearless critic, conscientious in all he undertakes, and is held in great esteem by his colleagues and all who know him.



MR. N. N. ARMITAGE, PH.C.



MR. L. A. JACKSON

Trade Notes

MEGGESON & CO., LTD., New Church Street, Bermondsey, London, S.E.16, have forwarded us specimens of their latest showcards and a photograph of them,



together with relative products, is reproduced above. These attractive display aids will be sent to chemists on request.

CHANGE OF NAME.—Parscent, Ltd., Duke's Road, Western Avenue, London, W.3, the distributors in this country of the perfumery products of L. T. Piver, inform us that owing to the difficulty of registering the word Matité, the name of the series of beauty preparations to which it was applied has been changed to Matiever. There is no other alteration in the form of presentation.

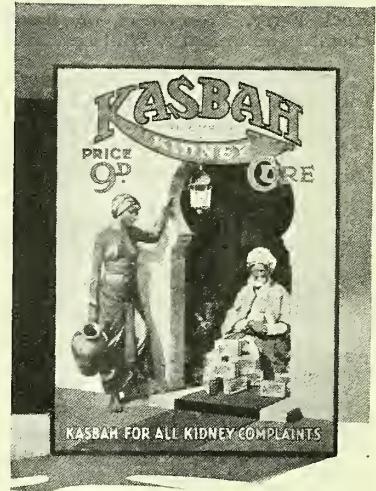
OXIDATION-REDUCTION INDICATORS.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have recently published a twenty-page booklet entitled "The Colorimetric Determination of Oxidation-Reduction Balance," in which is described the methods of using oxidation-reduction indicators, and some of their applications. A copy of this publication will be sent on request to any of our subscribers interested in the subject.

POWDER CREAM.—Papier Poudré, Ltd., 46 Baker Street, London, W.1, have introduced a new line in the form of a combined vanishing cream and face powder. Crème Poudré should prove a quick seller as it is inex-



pensive, effective and attractively packed. The small jars have black moulded caps with an artistic black and silver label, and one dozen is supplied in a display outer as shown herewith. The large size is in a "pearl" glass jar with a black metal cap. The cream is made in two shades—rachel and naturelle.

POTTER & CLARKE, LTD., Artillery Lane, London, E.1, have issued a new edition of their price list of packed goods and specialities. This catalogue is well printed and contains an unusually large number of illustrations, many of which are in colours. Chemists who have not already received a copy should write for one, as perusal of it will in many cases suggest a number of lines which might be more profitably sold in the form offered than as at present stocked. The accompanying illustration is of a striking showcard printed in colours which is now available.



KOF-OH CO., LTD., Everton, Liverpool, are making a bonus offer in connection with their Kof-Oh cough cure.

FASTEETH, a denture fixing powder, is supplied in this country by J. C. Gambles & Co., Ltd., 211 Blackfriars Road, London, S.E.1.

HOWARDS & SONS, LTD., Ilford, have issued a revised edition of their booklet on "Solvents." A copy of this informative publication will be sent to any of our subscribers who write for one.

FILM PRICES REDUCED.—Ensign, Ltd., 88 High Holborn, London, W.C.1, announce that from March 28 the prices of the eight-exposure Lukos photographic roll films E20 and E16 (2½ by 3½ and 2½ by 4½ respectively) will be reduced to 1s. and 1s. 3d. Films must not be sold at the new prices prior to this date, and no allowance can be made for stock now held.

SHAVING BRUSHES.—R. A. Rooney & Sons, Walthamstow, London, E.17, have called our attention to a number of their lines of shaving brushes. The lowest in price (No. 69) is white hog hair, the others are mixtures of badger and bristle, but though they are not expensive there is excellent value. The knots are guaranteed not to come out, and it is claimed that the handles, which are nicely grained and finished, neither split nor discolour on exposure to light. The display stand shown here is supplied on certain orders.



PHARMACAL LABORATORIES, LTD., 64 Hatton Garden, London, E.C.1, have introduced a new size of Iron-Ox tablets, particulars of which will be found on another page.

DRY CLEANING.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, supply under the name of Susie's Perfect Cleaner a product which should be useful in every household. It is in the form of a white powder and supplied in tins, as will be seen from the illustration here-with. Among the main points about this preparation are that it cannot leave a ring, it cannot hurt the most



delicate fabric as it contains no bleaching material, and it leaves no odour. For treating articles such as chiffon, silk and light fabrics it is claimed to be ideal. There is a comprehensive cleaning guide supplied with each tin, and also a sample of the powder which the chemist can give to anybody who is sceptical about its use before making a purchase. The retail price is protected.

"BRITISH JOURNAL PHOTOGRAPHIC ALMANAC."—Henry Greenwood & Co., Ltd., 24 Wellington Street, London, W.C.2, have sent us a copy of the 1934 "British Journal Photographic Almanac." Among the interesting articles in this issue (the seventy-fifth year of publication) is one on "The Amateur of 1934" which will be read with interest by all photographic chemists; others include "Amateur Films of Travel"; "Miniature Cameras and Big Pictures"; "A Tester for Flash Bulbs"; and "Prints on Chloro-bromide Papers." The "Epitome of Progress"; reviews of new goods, formulas and other trade information render the "Almanac" indispensable to the photographic dealer, while the advertising pages are a valuable buyer's guide. The editor has again included sixty-four gravure pages showing the latest achievements in pictorial photography, as done by amateurs and by professional makers of photographs for advertising. This so-called "Almanac" is a book of 746 pages altogether, and it sells at 2s.

A. DE ST. DALMAS & Co., LTD., Junior Street, Leicester, are issuing their Dalmoplast wound dressing in an extremely convenient display arrangement, as will be seen from the accompanying illustration. The stock of the tins is held at the back and one is on display, as shown. When this is sold another is easily slipped into



position. The stock is kept clean, and it is handy, while the arrangement takes up little space on the counter. A special window screen to be used with the outers is sent with certain orders. The new style of wrapper and display outer for the company's belladonna plasters is also shown in the photograph.

TOILET BRUSHES of all kinds are the subject of an announcement by A. Dee & Co., 9 Dyer Buildings, Holborn, London, E.C.1, elsewhere in this issue.

ASCORBIC ACID.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, have for more than a year supplied ascorbic acid for research purposes, and it is now issued as Tabloid ascorbic acid, 0.005 gm., each product being equivalent in vitamin C activity to two teaspoonsfuls of freshly expressed orange juice. This is the second pure crystalline vitamin to be issued as a Tabloid product, as vitamin D has been issued for some years, first as Tabloid irradiated ergosterol and now as Tabloid calciferol.

INEXPENSIVE FLAPJACKS.—Blackmore, Howard & Metherell, Ltd., 52 Hatton Garden, London, E.C.1, have brought out two Vogue flapjacks which, while maintaining the company's high standard in regard to these articles, can be sold at a much lower price than those



hitherto available. The larger of the two (Baby, No. 246) is 3 in. in diameter, is in one colour with line decoration. The smaller is known as "the flapjack's baby sister" and is 2 in. in diameter. As will be appreciated from the illustration, it reproduces in miniature all the features of the larger Vogue flapjacks. It is supplied in various two-colour and striped designs. The company has recently opened a new showroom at the above address and a visit is well repaid.

Wills

MR. HERBERT STANLEY, 3 Dale Street, Leamington Spa, Warwick, chemist, who died on October 23 last, aged eighty-five, left estate gross value £12,542, with net personality £11,825.

MR. JOHN WILLIAM ARDERN, 3 Queen Street, Ashton-under-Lyne, Lancs, chemist and druggist, who died on February 23 last, left estate gross value £3,619, with net personality £3,550.

MR. JOHN WALKER, 31 St. Peg Lane, Cleckheaton, Yorks, chemist and druggist, who died on September 26 last, aged sixty, left estate of the gross value £5,956, with net personality £1,681.

MR. JOHN WILLIAM COCKCROFT, 138 Blackhouse Road, Fartown, Huddersfield, Yorks, chemist and druggist, died on September 24 last, aged seventy-four, leaving £11,034, with net personality £10,436.

MR. JAMES WILLIAMSON, 593 Upper Richmond Road, Richmond, Surrey, chemist and druggist, died on August 18 last, aged seventy-nine, leaving property value £15,046, the net personality being £8,399.

MR. JOHN DOLBEAR, J.P., Ph.C., 108 High Street, Oxford, formerly of Dolbear & Goodall, chemists, who died on November 13 last, aged seventy-five, left estate gross value £8,298, with net personality £8,151.

MR. EDWARD WATERER MARTIN, J.P., The Manor House, Ewell, Surrey, an extensive grower of peppermint and lavender, who died on November 23 last, aged ninety-seven, left estate gross value £135,689, with net personality £126,870.

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THE ART OF DISPENSING.

The tenth edition of this well-known work is now ready. The book has been thoroughly revised and considerably improved, while maintaining the features which have made it so popular with several generations of students. It is kept by chemists in the dispensary for ready reference in cases of difficulties arising in the course of the day's work. Price 8s., by post 8s. 6d.

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Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

E/81	Carozyme	E/81	Palatine
E/17	Erado ink remover	D/18	Poslem capsules
M/15	Golden corn caps	E/17	Stovocal
E/17	Karfineol	M/17	Traxipine pine needle baths
B/12	Madame Butterfly incense	B/17	Vanquillin

THE CHEMIST AND DRUGGIST

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NO. 2815

The Practical Touch

THE interest aroused by our recent articles on display has been evident by the number of inquiries which have reached us. Perhaps the most important feature of such articles is the ease with which the recommendations can be put into practice. In order, therefore, to maintain the practical touch, we have spent considerable time in studying chemists' windows in a wide variety of districts. The information gained by such means is invaluable, inasmuch as the best features noted can be incorporated in future model displays, and the common faults pointed out. Generally, it is our experience that the chemist devotes greater care to his displays than many other traders, but he does not, perhaps, appreciate so much the importance of the main sources of attraction—colour, movement and the unusual. Lighting, too, is a matter worthy of much more consideration.

Some Examples

From notes taken during the examination of many windows, we have selected several common faults as worthy of discussion. In a large number of windows the object seemed to be to crowd as much stock as possible into a small space; and although a "mass" display, when properly carried out, can often produce good results there appeared to be, in many such windows, little attractive power and even less inducement to buy. It was further noted that several of these windows were devoid of such essential features as price tickets and showcards. Another fault was to be found in the methods employed to extend goods from the edges of the shelves, and many otherwise good displays were marred by a lack of imagination in this respect. In one window, in an important main road pharmacy, the useful idea of showing crude drugs together with "own-name" pharmaceutical lines was used. The display occupied the floor of the window, but was unfortunately spoiled by the suspension of a large showcard from the shelf above, forcing the observer to indulge in physical exercise in order to see the point of the display.

Colour

Apart from lighting, the usual method of introducing colour into the window is by the use of crêpe paper. In the London and suburban districts, for example, we found that about 60 per cent. of the chemists' windows examined were embellished in some degree by means of this material. It took the form of complete backgrounds or occasional tubes and twists. In the newer pharmacies, however, crêpe paper seemed to be little used, its place being taken by attractive wood or glass fixtures. The chief faults in the use of crêpe paper arise through lack of

practice in manipulation and failure to appreciate the possibilities of this useful material. In a great many cases only one colour was used, and that frequently an undesirable one. Dark blues and dark reds seem to be established favourites; but unless relieved by contrasting colours, these are not the best choice. In the absence of small stands it is not a bad plan to use, as substitutes, old boxes covered with crêpe paper. But the covering should be done, not in the slovenly manner observed in several windows, but with a view to neatness.

Lighting

During the past few years the methods employed by shopkeepers to promote sales have undergone a complete but effective change. The new attitude is in sharp contrast to that of the past, for instead of awaiting the requirements of the public, modern shopkeeping involves the creation of a continuous appeal. A great deal of extra business can undoubtedly be obtained by improving methods of lighting, and it is interesting to note the progress made by pharmacy in this respect. Although improvement appears to be slow, there is ample evidence that chemists are realising the importance of adequate illumination. We have recently, however, come across some very bad examples of pharmacy window lighting. In one case it was not only difficult to see the goods but quite impossible to look at the window for more than a few minutes without suffering from the glare. Illumination, in this instance, was derived from a powerful electric lamp hanging about the centre of the window and fitted with a useless type of shade; current was being wasted, and prospective customers were likely to be driven away. A means of illumination of particular interest to chemists is obtained by neon tubes, and many ingenious types were seen. This method is finding increased application in chemists' windows principally for the purpose of emphasising particular lines. On the whole, although chemists' windows are not at all badly dressed, we think there is ample room for improvement; and it will be our aim to suggest the means.

Commercial Notes

IN these times of continually changing conditions and industrial development it is essential to all concerned that they should be well informed on all matters affecting their commercial activities. Such factors as alterations in rates of import duties in all parts of the world, fluctuations in rates of exchange and similar matters are publicly notified every day of the week. There are, however, other matters which have a direct bearing and effect on markets and trade on which it is just as essential that information should be available to the interests concerned. We refer to world productions and stocks at the sources of supply; to the volume of shipments and to their destination; to new sources of supply, etc. These and many other matters relating to world commerce are of vital interest. In the form of "Commercial Notes," beginning with this issue (p. 77), we propose to give in condensed form the latest information from all parts of the world on any and every subject of interest to the chemical and allied trades. We believe this additional feature will be of general interest and value.

Notes and Queries

By Eric Knott, Ph.C., F.C.S.

THE following notes were communicated by Mr. Knott to a meeting of the Edinburgh Chemists', Assistants' and Apprentices' Association, on January 12:—

Should the following give a precipitate?

Potass. citrat.	...	...	gr. vj.
Spt. chloroform.	...	...	ℳx.
Ammon. carb.	...	...	gr. v.
Liq. ferri perchlor.	...	...	ℳx.
Aquam	...	ad	ℳss.

A clear mixture is obtained by dissolving the potassium citrate in water and adding the solution of ferric chloride, then add the ammonium carbonate dissolved in about three ounces of water. Add the spirit of chloroform and make up to six ounces.

What is "Iron Copperas"?

Copperas is a term applied to crude metallic sulphates of copper (blue copperas), zinc (white copperas), and iron (green copperas); the last is "iron copperas."

What is the cause of this lotion being dark in colour?

Potass. sulphurat.	...	...	ℳj.
Zinci sulph.	...	...	ℳiss.
Aq. rosa	...	ad	ℳvj.

Incidentally this lotion is designed to give a precipitate of zinc sulphide in a state of fine division. This can be secured by dissolving the two salts separately in about three ounces of water and gradually mixing the solutions, when a fine white precipitate is obtainable. The dark colour is due to a trace of iron in the zinc sulphate.

How would you dispense the following?

Bismuth. salicylat.	...	...	gr. vj.
Ext. malti liq.	...	...	ℳxx.
Paraffin. liq.	...	ad	ℳj.

Rub down the bismuth salicylate with about half the liquid paraffin, add the extract of malt with constant stirring and the remainder of the liquid paraffin gradually. Send out in a wide-mouthed bottle.

What is raspberry tea?

The leaves of the common garden raspberry (*Rubus idaeus*) are collected, dried, one or two leaves infused in a cup of boiling water, and the liquor drunk. Recently it was recommended in a weekly paper as a popular drink.

Is there any difference between glycine and glycin?

Glycine is amino-acetic acid ($\text{CH}_2\text{NH}_2\text{COOH}$); glycin, a poisonous substance used in photography is para-oxy-phenyl-amido-acetic acid ($\text{C}_6\text{H}_4\text{OHNHCH}_2\text{COOH}$).

What is the best method of dispensing the following?

Potass. bicarb.	...	...	ℳss.
Sod. salicyl.	...	...	ℳij.
Tinct. ferri perchlor.	...	...	ℳij.
Aquam	...	ad	ℳvj.

The above was a popular mixture some time ago and has recently come again into vogue. By dissolving the sodium salicylate in water, adding the tincture of iron, and the potassium bicarbonate, stirring till effervescence ceases and adding water up to the desired volume an elegant deep coloured solution is obtained.

The following ointment varies in colour when dispensed. Sometimes it is dark. What is the cause of the difference?

Hyd. oxid. flav.	...	...	gr. iv.
Atropin. sulph.	...	...	gr. ij.
Adipem præp.	...	ad	ℳj.

Variation in colour may be due to the method of compounding, to slight differences in the base or to absorption of some of the oxide of mercury to form oleate. If the atropine sulphate is dissolved in water before incorporating a lighter coloured ointment is obtained, but in presence of water, formation of crystals of mercuric sul-

phate might occur and these would be very irritating. Both powders should be rubbed down finely and mixed with the base.

Why is the following sometimes clear and at other times has a dense precipitate?

Liq. plumbi subacet.	...	...	ℳvj.
Liq. ammon. acet.	...	...	ℳiv.
Aquam	...	ad	ℳiv.

When dispensed with solution of ammonium acetate, B.P., 1932, the mixture may be clear. The solution of ammonium acetate, B.P., 1914, contains much more carbon dioxide in solution and this is the cause of the precipitate.

The following ointment is always spongy. Can you suggest how this may be avoided?

Hyd. ox. rub.	...	...	gr. xx.
Zinci oxid.			
Calam. prep.	...	ad	ℳij.
Creosot.	...	...	ℳx.
Liq. plumbi subacet.	...	...	ℳiv.
Paraff. molle	...	ad	ℳij.

Avoid allowing the creosote coming in contact with the lead solution. Rub the creosote with a little of the soft paraffin. Rub the powders smooth, incorporate with the mixed creosote and paraffin, and finally stir in gradually the lead acetate solution.

Emplastrum plumbi, B.P. The official process is slow. Can it be shortened?

The time may be shortened by mixing the three ingredients, setting aside for twelve hours, and boiling for two hours.

The process for infusum calumbæ concentratum, B.P., 1932, gives more than 1,000 mils. How can this be rectified?

Following the B.P. process the quantity of liquor in the first maceration is more than 500 mils. The B.P. directs that the liquors from the second and third macerations are to be evaporated to 250 mils and finally 250 mils of alcohol are added. The liquid from the second and third macerations should be evaporated below 250 mils, otherwise the finished product will be over 1,000 mils.

Why do the following pills crack?

Hyd. c. creta	...	...	gr. iss.
Ferri carb. sach.	...	...	gr. iiss.
Ext. gentian.	...	...	q.s.

Extract of gentian is acid in reaction, especially if old or if fermentation has taken place. Cracking is due to liberation of carbon dioxide by the acid of the extract acting on the carbonates of lime and iron. A neutral excipient should be used.

What are the crystals formed in the following mixture?

Pulv. rhei	...	...	ℳj.
Magnesia	...	...	ℳj.
Potass. bicarb.	...	...	ℳij.
Ammon. carb.	...	...	gr. 48
Sodii bicarb.	...	...	gr. 36
Aq. menth. pip.	...	ad	ℳvj.

The crystals are hydrated magnesium carbonate produced by interaction of the alkali bicarbonates with the magnesia.

Why does the following become soapy?

Potass. citrat.	...	...	ℳij.
Magnesia	...	...	ℳss.
Sodii bicarb.	...	...	ℳij.
Aq. chloroformi	...	ad	ℳvj.

Magnesia and sodium bicarbonate react with formation of magnesium carbonate and sodium hydroxide. The mixture becomes strongly alkaline with a decided soapy taste. Replacing the magnesia by magnesium carbonate obviates this difficulty.

Future of Pharmacy Discussed at Leeds

THE Leeds Branch of the Pharmaceutical Society met, on January 11, to hear an address on "Some Aspects of the Future of Pharmacy" by Mr. E. Saville Peck, vice-president of the Society. Mr. J. H. Gough, chairman of the Branch, presided.

Mr. Peck's Address

MR. PECK, speaking first of the new Pharmacy and Poisons Act, said the craft must now determine to get all it could out of the Act, and they would be wise to treat it as a foundation on which to build a sound structure of pharmacy, really worth while to the health service of the country and to those who had elected to work under its banner.

On the matter of the new appointments to the Pharmaceutical Society's Council, to be made by the Privy Council, Mr. Peck felt that the addition of a medical man, a Home Office representative and somebody on behalf of some other scientific body would really be all to the good. Their advice in their own particular spheres of experience would be welcome, and their presence would enable the parties they represented to gain a better appreciation of the difficulties of pharmacists than they had ever had before. In regard to the Statutory Committee of five pharmacists with a legal chairman, the speaker felt the new disciplinary power given to strike off the Register of Chemists, as well as off the Register of the Society membership, would be entirely to the good in dealing with any occurrences of unprofessional conduct other than offence against the law. The Poisons Board, which had now been constituted and was already at work, had the delicate task of defining what poisons were going into Part I of the schedule and which would go into Part II. Mr. Peck regretted the use of the word "Part" in the new Act, and thought that "Section" or "Group" would have avoided a lot of risk of confusion with the old Act. Many knotty points on detail, however, had still to be settled. His own personal opinion as a practising pharmacist was that some regulation should be made concerning substances in the barbituric group. Mr. Peck urged pharmacists not to regard the new inspectors as a sort of bogey. The policy of the Council would be to appoint inspectors who were practical pharmacists, people who had a personal knowledge of shop conditions and who would be people of reason rather than the young academic type who might have all sorts of fancy ideas difficult of practical application.

Turning to the question of apprenticeship, Mr. Peck said Leeds was to be congratulated on having put into operation a practical scheme which, from all one could learn, was working very well indeed. Thanks were due to Leeds for the energy they had thrown into this serious problem. He understood they were working in conjunction with the local juvenile employment committee, and he would venture to voice a small warning. He would urge that in the working of the scheme full attention be paid to:—(1) Registration, examination, matriculation and, if possible, the Preliminary Scientific examination before entering pharmacy; (2) that the young people should understand the Regulations and what they would entail; (3) that there should be consultation with the parents as well as the employment committee or the schoolmasters; (4) that the question of finance involved in entering pharmacy be emphasised; (5) that the young people be of good general health; and (6) that they be boys and girls of a scientific outlook. Since 1911, while population in this country had increased by 10 per cent., the number of pharmacists had increased by 45 per cent., which seemed to suggest that pharmacy was trying to commit hara-kiri or suicide.

"You in Leeds," said Mr. Peck, "have signal advantages in that the great University of Leeds has undertaken, with considerable courage and with the highest possible educational motives, the training of pharmaceutical students both for the Chemist and Druggist and the Ph.C. qualifications. I cannot speak

too warmly of the sympathetic attitude of the University authorities towards this matter, and I do most earnestly beseech you to support the University with all the enthusiasm you possess."

Discussion

Opening the discussion, THE CHAIRMAN said the new Act was very much in the nature of an Enabling Act. They did not yet know all that it would mean or what they were up against. Personally, he did not feel pharmacy was as well represented on the Poisons Board as it ought to be, having in mind the vital importance of the handling of poisons by chemists. In regard to the Leeds apprenticeship scheme, Mr. Gough said he would like to assure Mr. Peck that the points he had detailed, as necessary in dealing with young people through the juvenile employment bureau, were quite fully observed. The new Department of Pharmacy at the Leeds Medical School was a source of special personal gratification to himself.

MR. H. GILLEGHAN, referring to the new Act, criticised the prospect that the private pharmacist, already paying £1 11s. 6d. personal registration, was apparently going to have to pay also a shop registration fee which, although not yet fixed, was obviously going to be something of similar substantiality, whereas the multiple firm would have a very material advantage in paying one shop fee for a number of personal fees. In regard to apprenticeship, he felt the scheme lately issued by the Society was to a large extent a copy of the Leeds scheme.

MR. J. JUDGE asked what would be the position of an employer who had a qualified assistant who refused to pay the fees for registration under the new Act. Mr. Judge agreed that the power to strike an offender off the Register was very valuable.

MR. PECK: I cannot imagine a qualified man in the employment of a chemist allowing himself to fall down to unqualified standard. In answer to Mr. Smith, Mr. Peck said the word "pharmacy" was due under the new Act for immediate removal from any unregistered premises. He thought it would be generally agreed that under existing circumstances they would not want any more Regulations under the D.D.A. than could be avoided. In reply to a question as to what the Society was doing in regard to unemployment in pharmacy, Mr. Peck said admittedly there were limits to what the Society could do in that direction, but they had their own employment bureau.

MR. R. SWAITS said many an average pharmacist could not afford to employ a qualified assistant.

MR. PECK said it was realised that there would have to be some unqualified assistants in pharmacy shop life, but he would rather see them drawn from a standard not quite so educationally high as the qualified person rather than have a lot of wrong people entering pharmacy, failing to pass their examinations and having to finish up as unqualified assistants.

MR. CARR congratulated the speaker on dropping the rôle of prophet (rather usual among visitors from the Council) and devoting himself frankly to matters of direct immediate interest to the practising pharmacist.

MR. A. W. LUPTON asked whether the Society might be able to arrange a reduced fee for, say, a pharmacist's wife who was herself also a pharmacist but not practising after marriage.

MR. PECK said that was a point that he would bring to the attention of the Council. There was, of course, another aspect of it. Suppose her husband fell ill: was it not likely that she would immediately become, for a time, a practising pharmacist in the majority of cases?

THE CHAIRMAN, in closing the discussion, said matriculation was undoubtedly a fine educational standard, but it was never really intended as the qualification for entrance into any particular profession, but for entrance into a university.

A hearty vote of thanks was accorded to Mr. Peck.

Use of Resorcinol in Chemical Analysis

I.—The Detection and Differentiation of Compounds Containing the Carbonyl Group: with a Special Note on Sugars

By Alan H. Ware, Ph.C.

THE value of resorcinol as a chemical reagent is not generally realised. There are very few other reagents which will detect and differentiate such a large number of compounds and with so few and such simple operations, especially when the compounds, as in this case, belong to so many different classes. Some of the methods and many of the results of which particulars are given below have not previously been published. The reactions with which we are at present concerned are those involving bodies belonging to the following classes, viz., aldehydes, ketones, carboxylic acids and their anhydrides, carbohydrates, glucosides and related bodies, and certain methoxy-bodies and polyhydroxy-alcohols which break down on heating with appropriate acids to yield simpler bodies possessing the carbonyl group in the molecule. In all cases, probably, we are mainly concerned with the formation of condensation products in which the resorcinol residue displaces an oxygen atom in the carbonyl group of the other substance which is directly involved. Amongst the important bodies in this category which give distinctive reactions are the following:—

Acids and Anhydrides.—Citric, formic, lactic, oxalic, succinic and tartaric acids and their metallic salts and santonin.

Aldehydes.—Acetaldehyde, benzaldehyde, bournonal, butylchloral, chloral, chloralamide, dextrose, formaldehyde, paraldehyde, piperonal and vanillin.

Alcohols.—Dextrose, glycerol and laevulose.

Carbohydrates.—Are detected and well differentiated into two groups, viz., laevulose and laevulose-yielding carbohydrates on the one hand and dextrose and other carbohydrates which do not yield laevulose on the other (see later).

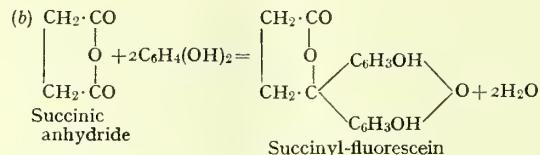
Glucosides and Allied Bodies.—Acacia and tragacanth gums, arbutin, salicin and saponin and probably many others.

Ketones.—Acetone, camphor, dihydroxyacetone and laevulose.

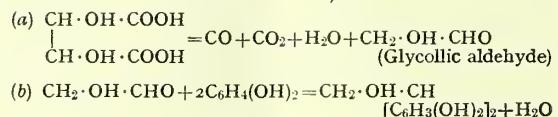
Miscellaneous.—Eugenol and saccharin.

The condensations to be discussed are brought about by the aid of certain acids. Probably the primary condensation products, themselves, most frequently possess little or no colour, but all either yield coloured or fluorescent principles with alkalis or else become coloured as a result of secondary changes such as oxidation. The nature of the response given may depend not only upon the particular compound tested but also upon the character or concentration of the acid selected and upon the temperature or period of heating employed. Sometimes also it will differ with differing proportions of resorcinol and the body being tested. With respect to acids employed, in general the most characteristically distinctive results are obtained by the use of one or other of the following, viz., 80 per cent., v/v, sulphuric acid, syrupy phosphoric acid, s.g. 1.75, or aqueous hydrochloric acid of certain strengths to be specified. Although the final products obtained in the presence of acid fall into three well-defined classes, probably only two kinds of *principal* reaction are possible. As illustrations of these classes we may take the well-known reactions given by succinic and tartaric acids under prescribed conditions:—

TYPE I (ILLUSTRATED BY SUCCINIC ACID)



TYPE II (ILLUSTRATED BY A REACTION IN WHICH TARTARIC ACID IS USED)



It will be noted that the condensation products of the first class differ from those of the second by the fact that two molecules of water are eliminated in the principal reaction, hydrogen atoms of both the aryl and hydroxyl groups of the resorcinol being involved, but that in the second class of principal reaction only one molecule of water is eliminated, the hydroxyl groups of the resorcinol being unaffected. In the first case products which fluoresce in aqueous alkali are formed, but in the second case the condensation products are not fluorescent. Official examples of actual condensation products of the types discussed are fluorescein (resorcinol-phthalein) belonging to the first class and phenolphthalein belonging to the second class. We now come to a fact that is much less generally known, viz., that by varying the procedure slightly it is also possible to make a fluorescent condensation product with tartaric acid and indeed with a very large number of other substances that are not generally supposed to yield such products with resorcinol—that, in fact, the books are wrong in stating that such products are only characteristic of acids which readily part with water to leave a particular class of stable anhydride and of such anhydrides themselves. In the spring of this year a student of the Plymouth Technical College, Mr. L. J. White, observed that the mixture obtained by heating a pinch of damp sodium formate and a pinch of resorcinol with concentrated sulphuric acid, which, however, had been placed in a wet test-tube, gave a rich green fluorescence when cooled, diluted with water and added in sufficient quantity to aqueous ammonia, 10 per cent. The present writer found that this result was not given if the formate and test-tube were dry, but that it could always be obtained if 80 per cent., v/v, sulphuric acid was used and also if syrupy phosphoric acid (s.g. 1.75) was substituted for sulphuric acid. Subsequently it was found that a very large number of compounds would yield similar fluorescent principles with resorcinol with one or both of the acids of the strengths named. Perhaps the most surprising cases are those of eugenol and, to a less extent, glycerol, neither of which contains the carbonyl group. Presumably in such cases changes occur resulting in the formation of bodies possessing such a radical in the molecule: in the case of glycerol this might well be acrolein.

DETAILS OF METHOD FOR OBTAINING FLUORESCENT PRODUCTS

0.01-0.02 gm. of the substance to be tested and 0.1 gm. of resorcinol are placed in a test-tube with about 4 mils of 80-per-cent., v/v, sulphuric acid or the same quantity of syrupy phosphoric acid, s.g. 1.75, and heated gradually until the maximum colour change or precipitation occurs. With the phosphoric acid the heating can usually be continued until the mixture

boils, but with the sulphuric acid both boiling and charring must be avoided. Any colour change or production of colour or precipitate is noted. The mixture is then cooled, diluted with water and added in sufficient quantity to aqueous ammonia, 10 per cent.

Results.—The substances named below all give an intense fluorescence when added to the solution of ammonia. The fluorescence is usually green, but in the case of citric acid, when the acid is used in excess of the resorcinol it is an intense blue, which appears to be a specific result for that compound. Most frequently the alkaline solution is pink to transmitted light. If shaken with amył alcohol the fluorescence is transferred wholly or partly to the alcoholic layer. It should be noted that if sulphuric acid is used a check test carried through with the reagents, only, will give a slight fluorescence. This poor fluorescence cannot, however, be possibly confused with the intense green or yellowish-green fluorescence given by each of the compounds listed below, once such a fluorescence has been seen. Frequently distinctive results are given at the acid stage. Many compounds are further dis-

tinguished by giving the fluorescence to one acid but not the other.

LISTS, GIVING PARTIAL DIFFERENTIATION

(a) The fluorescence is given only to 80-per-cent. sulphuric acid:—Citric, oxalic, succinic and tartaric acids and their salts, acetone, camphor and santonin.

(b) Fluorescence given well with either acid:—Bourbonal, dihydroxyacetone, eugenol, formates, glycerin, lactates, piperonal, saccharin and vanillin, but some of these, notably lactic acid and saccharin, give the better result to the sulphuric acid.

(c) The fluorescence is given better and in some cases only to syrupy phosphoric acid:—Butyl-chloral hydrate and carbohydrates and allied substances. Of the latter those actually tested are arbutin, dextrin, dextrose, dihydroxyacetone, inulin, lactose, lœvulose, maltose, manna, quercetin, salicin, saponin, starch, sucrose and acacia and tragacanth gums.

Some of the more striking individual results at the acid stage will be described later.

(To be continued)

Pharmaceutical Society of Great Britain

Examination Results

PHARMACEUTICAL CHEMIST QUALIFYING EXAMINATION

At the examination held in London during January the following candidates were successful:—Kidd, J. G.; Mason, Hannah, M.; Vickers, J.; Westmacott, B. S.; Wien, R.; Bailey, L. A.; Burlinson, H.; Kirby, E. T. H.; Lee, H. F.; Bull, A. W.; Stevenson, S. G.

Branch Meetings

Anglesea.—A meeting of the Anglesea, North Carnarvonshire and Colwyn Bay Branch was held on January 10 to hear an address by Mr. H. Antcliffe (a member of the Society's Council). There was a good attendance. Mr. C. Parry (chairman) said they were very pleased to welcome Mr. Antcliffe. It was to be regretted that vital matters had been decided at headquarters without consulting the branches. Mr. Parry pointed out to Mr. Antcliffe that he was addressing 125 pharmacists, 102 of whom were masters. Mr. Antcliffe, in the course of his address, dealt with the new Pharmacy and Poisons Act, the apprenticeship question, examinations, and other matters affecting pharmacy, and afterwards answered questions. Mr. W. A. Roberts asked whether in the event of a lady assistant getting married, she could subsequently resume her occupation. Mr. J. L. Neal (Conway) asked if it would be legal to employ a locum or assistant who had not registered. Mr. Antcliffe said it would be illegal to employ an unregistered qualified assistant as locum. A qualified person, he said, who had failed to register or who had married and therefore did not need to register, could subsequently apply for registration. There was some discussion on the method of the election of the Poisons Board. Mr. L. G. Wood asked how it came about that nearly all the members were "Londoners," and could not those who represented the craft have been elected from master chemists in the provinces. Questions were put as to what constituted "misconduct" which would entitle the Council to remove a member's name from the Register. The registration fee and inspectors were also discussed, and the following resolutions were carried unanimously:—(1) "That unqualified applicants to sell certain poisons, as laid down by the Act, should not pay a less fee than the qualified person for registration"; (2) "that inspectors for the purpose of inspecting pharmacies should be men in retail business and of the age between thirty-five and forty-five, and that those chosen for Wales should speak the Welsh language"; (3) "that the Council, if the law allowed, should do its best to see

that no unqualified person should sell poisons within one mile of a qualified person."

Bradford.—Most of the time at a meeting of the Bradford Branch, held on January 9, was devoted to consideration of the recommendations of the Education Committee of the Society in respect of rules for practical training of apprentices in shops. Mr. F. E. Burdett presided over a good attendance. Taking the proposals of the Education Committee as set out by the Society, the meeting adopted Rule 1, and clauses 1 and 2 of Rule 2, with little discussion. Clause 3 of Rule 2 aroused a good deal of debate, and the chairman, summing up, said the feeling of the Branch seemed to be that paragraphs 1 and 2 would be improved by some amplification such as the addition of the words "usually found in pharmacies" in respect of the reference to apparatus and substances. The meeting ultimately left the matter without making any specific recommendation on the point. Proceeding to paragraph 3 of Rule 2, opinion in the meeting was to the effect that the words "preparation of galenicals" were rather vague. It was suggested that the words "the manufacture of preparations" might be preferable. In this matter also, however, no definite recommendation was adopted and the rule as set out by the Society was approved. The remainder of the items in clause 3 of Rule 2 were accepted with little discussion. On Rule 2, clause 4, one member humorously suggested that in view of all that was required under the new Pharmacy and Poisons Act it might be well for chemists to provide a rest room for apprentices and a reception room for inspectors. The Society's recommendation was accepted. In regard to clause 5 of Rule 2, the Branch, after discussion, decided to recommend a basis of only one apprentice per qualified person, as against two in the Society's recommendations; and that in the case of a one-qualified pharmacist shop there should be the right to a twelve-months' overlap by which the proprietor would be allowed to take a new apprentice to be learning the work during the final twelve months of the old apprentice. In regard to the second portion of clause 5, a view expressed by several speakers was that a great deal depended on what exactly was meant by "receiving training." The Council of the Branch suggested an amendment that the rule should not include persons chiefly engaged for packing of manufactured articles in the pharmacy, even if sometimes engaged in the compounding of medicines. Eventually, however, the meeting left the clause as submitted by the Society. The Branch Council suggested the addition of a clause providing a minimum period of three years for apprenticeship. An amendment favouring four years was discussed, but the three-years' period was adopted as a recommendation. The meeting adopted the proposition for a scale of premiums returnable as wages, this to be forwarded as a recommendation to the Society. A clause providing that employers requiring apprentices should make application through the local Branch secretary was also suggested.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

Report on the December Analytical Exercise

(Concluded from the C. & D., January 13, p. 47)

THE powder distributed to students on December 5 contained four parts by weight of potassium aluminium sulphate (potassium alum), five parts of zinc sulphate, and one part of magnesium hydroxycarbonate. The calculated composition of such a mixture is:—

Al	...	...	...	...	2.3
Zn	...	...	...	...	11.4
Mg	...	...	...	...	2.5
K	...	...	...	...	3.3
SO ₄	...	...	...	...	32.9
CO ₃	...	...	...	...	4.7
OH	...	...	...	...	0.9
H ₂ O	...	...	...	...	42.0
					100.0

Samples of the powder were distributed to thirty students and nineteen reports were returned for examination. The radical of sulphuric acid was reported in every case, while that of carbonic acid was missed by three students. The failures in the detection of the metallic radicals were:—Aluminium, 4; zinc, 2; magnesium, 12; potassium, 9. Eight students overlooked the copious evolution of water when the powder was heated in a dry tube. Iron and calcium were incorrectly returned as main constituents, as were also the radicals of nitric, hydrochloric, and boric acids.

One of the features of this exercise was the relatively small proportion in which three of the four metallic radicals were present. This state of matters resulted from the presence of such a large proportion of sulphuric acid radical and of water of crystallisation—these two constituents, together with the carbonic acid radical, making up nearly 80 per cent. of the weight of the powder. The aluminium, magnesium, and potassium, on the other hand, only amounted, together, to slightly over one-tenth of that quantity. In the circumstances, the usual precautions to avoid too great dilution of the solutions under examination, owing to the addition of large quantities of reagents, were of special importance. In the present instance, as in many analyses, evaporation was desirable in order to diminish greatly the volume of the liquid that remained for examination after the iron and zinc group precipitates had been separated, as a preliminary to testing it for barium group metals, magnesium, and alkali metals. It seems almost certain that many of the numerous failures to detect the magnesium were due to the usual test with ammonium phosphate in ammoniacal solution (which is not a test of extreme delicacy) having been applied to filtrates that were too dilute to yield well-marked crystalline precipitates within a moderately short time.

The presence of the aluminium was liable to be overlooked owing to the non-appearance, as reported by a few students, of an immediate precipitate on the addition of ammonium chloride and excess of ammonia as iron-group reagents. When aluminium is present in small proportion only, the excess of ammonia, in which aluminium hydroxide is to some extent soluble, may suffice to retain the whole in solution: hence, at this stage it is always advisable to boil the mixture until ammonia just ceases to accompany the escaping steam. Its solvent having thus been eliminated, the hydroxide separates in flocculent form and can be identified by subsequent tests.

Chloride was reported in several cases as a main constituent. It is difficult to conclude otherwise than that the test for chloride was applied in these cases to solutions prepared by means of dilute hydrochloric acid, or that the sodium carbonate used in preparing the solution

to be tested for acidic radicals contained much chloride as impurity. The original powder contained no more than a barely recognisable trace of chloride.

The isolated reports of the presence of a borate appear to have been mere guesses, based upon the observed behaviour of the powder when heated on a platinum wire, although positive tests for borate were circumstantially described. Borax is not the only salt that loses much water of crystallisation when heated.

TO CORRESPONDENTS

R. W. HENDERSON.—The abundant evolution of water on heating the powder in an ignition tube should not have escaped observation.

R. B. B. WILLIAMSON.—The uncertainty regarding the presence or absence of magnesium was the only really weak point in your analysis.

KARYOKENESIS.—While the writing of equations supplies useful practice, their inclusion in the report of an analysis does not add to the value of the report.

LANCASH.—Apart from traces of carbon dioxide, the only acid fumes that could have been evolved on heating the powder with concentrated sulphuric acid would be due to the volatilisation of traces of that acid.

ALGAE.—The staining of a silver coin by the moistened residue from heating the powder on charcoal, only indicated the presence of sulphide in the residue, and it did not prove that the sulphur was originally present as sulphate. Sulphur in any form of combination would have produced sulphide in the same way on heating upon charcoal. It is not remarkable that you report reactions for carbonate in a solution obtained by boiling the powder with sodium carbonate. Your tests for borate suggest arm-chair rather than laboratory-bench reactions, but it may be that you actually observed changes due to the action of concentrated hydrochloric acid on turmeric paper and the subsequent drying of the paper. Examine the behaviour of these materials in a test made in the known absence of a borate. Note that zinc ferrocyanide is not soluble in dilute acids.

H. C. N.—Salts that yield coloured borax beads are not necessarily absent from colourless mixtures although, as you indicate, they are "unlikely." Often in chemical analysis—and occasionally in the mixtures we distribute as exercises—the "unlikely" is met with. The addition of barium chloride alike to acidified and to neutral solutions of the sodium carbonate extract for acidic radicals should have yielded precipitates of barium sulphate, whereas you report the neutral solution as not giving rise to any precipitate.

V. J. ROSE.—Although the procedure you describe was seemingly correct, there must have been some flaw that caused you to obtain reactions which you attributed to calcium, while you missed the magnesium.

E. J. LAX.—Your failures in detecting the metals present in small proportion suggest that you have been using solutions that were too dilute to give rise to conspicuous precipitates. When dealing with such small quantities as these exercises supply, it is imperative to avoid undue dilution of filtrates or to correct it by evaporation, if necessary. Read the general remarks.

ICARUS.—You omitted any reference to the mode of preparation of the solution to be tested for acidic radicals. This information should have been clearly given. Read also the reply to "Algae."

SONOR.—A careful preliminary examination should have been made. Prepare a mixture similar to that supplied and practise upon it until you recognise where and how you have made mistakes.

PHIL-DE-VERE.—Avoid the inaccuracy of describing a substance as insoluble because it does not dissolve entirely. About nine-tenths of the present mixture dissolved easily in water.

THE OLD STRAND CHEMICAL & DRUG CO., LTD., Audrey House, Ely Place, London, E.C.1, are sending out the *Toscot Indexed Diary* (9 in. by 6 in.), a well-printed volume suitable for desk use. A very handy feature is the thumb index, with monthly indications on projecting tabs easily seen. The general information section comprises details of air mails and other matters likely to be needed frequently in business.

World Production of Morphine, Cocaine, etc.

THE report of the Advisory Committee on Traffic in Opium and Dangerous Drugs contains the following tables of production and exports:—

Morphine for use as such and for conversion (in kilogrammes)

COUNTRY	1927	1928	1929	1930	1931	1932
Germany	12,800	19,120	24,000	10,555	4,994	7,421
United Kingdom	4,683	3,968	4,577	1,911	1,012	1,292
United States of America	7,292	8,193	8,374	5,373	7,728	6,015
France	4,000	7,278	12,141	12,495	8,734	6,177
Japan	1,508	2,412	1,989	2,060	1,774	1,395
Netherlands	37	17	—	34	20	85
Switzerland	3,757	2,246	4,140	1,844	4,001	1,207
U.S.S.R.	?	2,819	2,445	4,133	1,766	—
Other countries	66	115	126	151	412	—
Total manufacture reported	34,143	46,166	57,792	38,556	30,441	—

Diacetylmorphine (in kilogrammes)

COUNTRY	1927	1928	1929	1930	1931	1932
Germany	750	1,300	387	169	58	116
United Kingdom	447	277	223	107	85	98
France	1,840	3,450	1,343	2,216	193	90
Japan	691	1,745	1,590	1,466	832	734
Switzerland	3,310	952	68	4	31	38
Other countries	6	86	41	126	50	—
Total manufacture reported	7,044	7,810	3,652	4,088	1,249	—

Cocaine (in kilogrammes)

COUNTRY	1927	1928	1929	1930	1931	1932
Germany	2,500	2,344	1,826	1,153	1,020	744
United Kingdom	—	129	238	318	315	395
United States of America	947	952	846	723	870	788
France	772	1,100	911	831	373	297
Japan	1,542	1,420	1,253	1,229	1,187	931
Netherlands	692	668	281	135	89	194
Switzerland	59	140	344	328	155	243
U.S.S.R.	?	447	735	1,120	537	—
Other countries	—	—	—	1	—	—
Total manufacture reported	6,512	7,200	6,434	5,838	4,612	—

The following figures are given showing the exports of morphine, diacetylmorphine and cocaine by the principal exporting countries during the period 1926 to 1932:—

Exports from Germany (in kilogrammes)

	1926	1927	1928	1929	1930	1931	1932
Morphine	4,521	2,700	3,074	2,892	1,088	355	454
Diacetylmorphine	1,587	808	1,292	292	175	61	116
Cocaine	2,194	2,015	1,864	1,486	1,032	709	643

Exports from the United Kingdom (in kilogrammes)

COUNTRY	1926	1927	1928	1929	1930	1931	1932
Morphine	1,680	1,509	1,139	1,010	509	389	—
Diacetylmorphine	176	287	156	124	70	54	—
Cocaine	114	101	115	99	140	124	—

Exports from France (in kilogrammes)

COUNTRY	1926	1927	1928	1929	1930	1931	1932
Morphine	1,739	935	623	1,053	287	419	155
Diacetylmorphine	331	1,248	2,663	166	93	129	22
Cocaine	361	357	457	200	195	181	55

Exports from the Netherlands (in kilogrammes)

COUNTRY	1926	1927	1928	1929	1930	1931	1932
Morphine	26	142	240	39	—	—	—
Diacetylmorphine	492	484	1,121	1	—	—	—
Cocaine	709	421	491	227	109	92	—

Exports from Switzerland (in kilogrammes)

COUNTRY	1926	1927	1928	1929	1930	1931	1932
Morphine	4,333	1,919	1,761	891	658	544	469
Diacetylmorphine	4,454	3,282	1,299	202	100	51	72
Cocaine	376	293	276	242	264	293	223

Commercial Notes

SWISS PHARMACEUTICAL EXPORTS.—Exports of pharmaceutical chemicals, prepared medicines and toilet preparations for the period January-September, 1933, totalled 25,900,000 francs.

JAPANESE MENTHOL EXPORTS.—Shipments for January-September, 1933, totalled 372,000 lb., compared with 452,000 lb. for the same period of 1932.

NUX VOMICA.—Exports from Indo-China, in metric tons: 1925, 729; 1926, 483; 1927, 505; 1928, 795; 1929, 401; 1930, 505; 1931, 677; 1932, 298; 1933, January to August 31, 354.

GUM SANDARAC.—The estimate of crop for 1933 in Morocco is about 50 metric tons. This small quantity is stated to be due to unremunerative prices in former years.

CANADIAN CHEMICAL IMPORTS.—Imports for the twelve months ended November 30, 1933, were valued at \$23,711,085, of which \$13,467,064 were despatched from the U.S.A. and \$5,238,179 were shipped from the United Kingdom.

GERMAN TARTARIC ACID.—Exports for the period January-September, 1933, amounted to 1,884,300 kilos., valued 2,216,000 marks, compared with 2,180,000 kilos., valued 2,324,000 marks for the same period of 1932.

ITALIAN LAVENDER OIL.—Plant for improved steam distillation with a capacity of ten tons of flowers daily is stated to have been put down in the valley of the Briga Marittima, in Piedmont. Present output is stated to be 800 kilos. per year.

NEWFOUNDLAND COD-LIVER OIL.—Exports for the period August 1 to October 31, 1933, are stated to amount to 115,540 gallons, compared with 115,100 gallons for the same period of 1932. Exports of cod oil for the same period of 1933 totalled 219,957 gallons, against 210,261 gallons in 1932.

AGAR-STOCKS in Japan at September 30 last were estimated to total 666,600 lb., with "Kobe" at 466,600 lb. and "Yokohama" at 200,000 lb. Exports for the period January-June totalled 2,477,300 lb., valued 2,712,660 yen, and are a little more in volume than the shipments for the same period of 1931 and 1932.

U.S.A. CAMPHOR IMPORTS.—During period January-October, 1933, Germany shipped 605,983 lb., valued \$143,133, compared with 1,172,499 lb. (\$326,386) for the same period of 1932. Shipments from Japan to the States for the same period in 1933 were: crude, 1,757,674 lb., valued \$357,704; refined, 1,224,315 lb. (\$374,707); for the first ten months of 1932: crude, 1,752,905 lb., valued \$500,873; and refined, 879,904 lb. (\$313,105).

ARGENTINE CASEIN EXPORTS.—Unofficial estimates of Argentine exports for the first nine months of this year are given as 17,598,000 kilog., compared with 11,500,000 kilog. for the same period of 1932. Shipments to the U.S.A. are stated to have increased from 212,460 kilog. in 1932 to 3,066,976 kilog. in 1933. Shipments to the U.K. also increased from 1,590,000 kilog. to 2,419,600 kilog. during the same period. Germany took nearly 7,000,000 kilog. during the nine months.

JAPANESE PYRETHRUM PRODUCTION, 1933.—The total production for 1933 was 6,355 long tons, against 6,000 long tons in 1932 and 5,600 long tons in 1931. The 1933 crop was about equally divided between the mainland and Hokkaido. Stocks in Japan at September 30 last amounted to 4,400 long tons. Exports for the period January-September, 1933, totalled 3,148,667 lb., compared with 9,479,067 lb. for the same period of 1932 and 3,148,667 lb. in the first nine months of 1931.

ITALIAN CITRATE OF LIME.—It is reported that the Camera Agrumaria will guarantee producers a price of 200 lire per quintal for the coming year (150 lire was guaranteed last year). If the average gross price of sales is below 200 lire the control will pay the difference, up to a maximum of 100 lire per quintal. Five million lire have been allocated for this purpose. Last year the liability amounted to about three million lire. This subsidy will also be applied to makers of citric acid, who produce citrate of lime for their own consumption. To obtain the bounty the citrate must in all cases have been produced this year. Stocks on hand are stated to be very low and to consist chiefly of old stocks of prior to 1929.

LONDON STOCKS OF DRUGS, ETC.—Stocks at the close of 1933: ALOES, 476 cwt. (418 cwt. in 1932). CASCARA SAGRADA, 99 tons (13 tons in 1932). BEES' WAX, 2,069 packages (1,811 in 1932). CAMPBOR, 586 packages (538 in 1932). CARDAMOMS, 346 cwt. (495 cwt. in 1932). COCHINEAL, 40 bags (64 in 1932). COLOMBO ROOT, 361 bags (1,345 in 1932). DRAGON'S BLOOD, 244 cases (229 in 1932). GALLS, China and Japan, 86 cases (57 in 1932). GUM ACACIA, all grades, 8,126 packages (7,111 in 1932). ASAFETIDA, 82 cwt. (256 in 1932). BENZIN, 803 cwt. (621 in 1932). OLIBANUM, 490 packages (433 in 1932). SANDRAC, 50 packages (63 in 1932). TRAGACANTH, 5,370 packages (11,903 in 1932). IPECACUANHA, all kinds, 202 cwt. (136 in 1932). NUX VOMICA, 606 cwt. (102 in 1932). RHUBARB, 503 cwt. (346 in 1932). SENNA, 5,776 bales (3,821 in 1932).

Business Changes

The business of M. Rogerson & Sons, Ltd., chemists, Darley Street, Bradford, has been acquired by Boots, Ltd.

MR. T. R. MILBURN, chemist and druggist, Newcastle-on-Tyne, has opened a branch at 11 Marine Avenue, Monkseaton.

THOMAS & LINTON, LTD., wholesale druggists, have removed to 57 Ormond Yard, Great Ormond Street, London, W.C.1.

MR. J. B. MUNT, chemist and druggist, has acquired the business of Mr. W. H. Evans, chemist and druggist, 128 Rhyddings Terrace, Swansea.

MR. F. STANLEY CLARKE, Ph.C., F.C.S., has been appointed to the board of directors of Stemco, Ltd., London, N.W.1, associated with Stanco, Inc., New York and Bayway, U.S.A. Mr. Clarke has been works manager for the plant at Camden Town for many years, and is also a technical adviser for European countries.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, January 18

CONDITIONS in the markets during the past week have been fairly steady despite fluctuations and threatened further developments in the dollar and other currency exchanges. Business, however, seems to have been rather slow, the trade apparently waiting the outcome of the present financial movements. In the pharmaceutical chemicals there is little to comment upon except that the stronger Continental exchanges, if maintained, will tend to advance prices for some commodities. Home makers' prices for their products are generally unchanged. IODIDES are quoted at the recent reductions. In the crude drugs section speculative interest has continued in SPICES and still higher prices are recorded. ERGOT is very steady. Japanese MENTHOL remains dull, but quotations are maintained. PEPPERS and PIMENTO with CLOVES are all rather dearer. SENEGA is a point easier. SHELLAC is again quoted at an advance. TRAGACANTH continues to find a steady demand for most grades. CARNAUBA WAX is firm and dearer forward. In the essential oils markets business has been sluggish, with LEMONGRASS the strong feature. SICILIAN PRODUCTS are still quiet. JAPANESE PEPPERMINT has been slack, but quoted values are holding. PETITGRAIN and SPEARMINT are steadier, while WORMSEED is a point easier. We understand that the question of the authorised consumption of METHYLATED SPIRITS in the production of PERFUMES and ESSENCES is now under official consideration, and that in due course developments of considerable interest may take place.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	January 18	Value of the £
Amsterdam ...	Fl. to £	12·107	7·83	12/11½
Berlin ...	Mks. to £	20·43	13·26	12/11½
Brussels ...	Belgas to £	35	22·56	12/11½
Copenhagen ...	Kr. to £	18·259	22·40	24/8
Lisbon ...	Esc. to £	110	100½	19/11
Madrid...	Ptas to £	25·22½	38½	30/2
Milan ...	Lire to £	92·46	60	12/11½
Montreal ...	Dol. to £	4·86½	5·08	20/9½
New York ...	Dol. to £	nominal	5·04	20/7½
Oslo ...	Kr. to £	18·159	19·90	21/11
Paris ...	Fr. to £	124·21	80½	12/11½
Prague...	Kr. to £	164·25	107	13/1½
Stockholm ...	Kr. to £	18·159	19·39	21/4½
Warsaw ...	Zloty to £	43·38	28	13/0
Zurich ...	Fr. to £	25·22½	16·40	13/1

Bank rate 2 per cent.

Drug auctions for 1934 will be held on the following dates: March 15; May 17; July 19; September 20; November 22. A report of the drug auction held to-day is given at the end of the Trade Report.

Pharmaceutical Chemicals, etc.

BUSINESS is moving on limited lines. Salicylates are steadier and in better inquiry. Santonin is competitive. Iodides are unchanged. Phenacetin is maintained. Continental products tend to advance on the sudden drop in sterling exchange value.

ACETANILID.—Market steady; dull; B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—Small business: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. per lb., in 7-lb. tins.

AMIDOPYRIN.—Dealers doing occasional business: crystals, five cwt., 175. 4d.; two cwt., 175. 9d.; less than two cwt., 18s. per lb.; with powder, 2½d. per lb. extra.

AMMONIUM ICHTHOSULPHONATE.—Quoted unchanged: one cwt., 1s. 6d. in 14-lb. tins; 1s. 7d. in 1-lb. tins; 1s. iod. in 8-oz. tins; and 2s. per lb. in 4-oz. tins.

ASPIRIN.—The Convention prices are keeping steady: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt.,

2s. iod.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BARBITONE.—Occasional inquiry; market steady: spot, one cwt., 13s.; 56 lb., 13s. 1½d.; 14 lb., 13s. 3d.; small parcels, up to 13s. 9d. per lb.

BISMUTH SALTS.—Makers' scales of prices for these salts are unchanged. Carbonate, 7s. 8d. per lb. in cwt. lots.

BROMIDES.—Fair inquiry; quotations maintained: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Business is fair, with Continental prices unchanged: pure, 250 lb., 6s. 2½d.; 100 lb., 6s. 4½d.; 50 lb., 6s. 6½d.; less than 50 lb., 6s. 9d. per lb. Citrate, 250 lb., 5s. 1½d.; 100 lb., 5s. 2½d.; 50 lb., 5s. 3½d.; less than 50 lb., 5s. 4½d. per lb., net, carriage paid. Packages from 5 lb. and upwards free.

CALCIUM LACTATE is about unchanged; inquiry limited: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' scale of prices is steady and commands the home market: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 3d.; one cwt., 3s. 4d.; 56 lb., 3s. 5d.; 28 lb., 3s. 6d.; 14 lb., 3s. 7d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices are as follows: in drums, 2s. 3d. to 2s. 6d.; winchesters, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11d.; for 10-cwt. down to 56-lb. lots, carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Makers are quoting for home trade at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers offers about competitive.

CODEINE.—Makers' new scales of quantities and prices continue at the figures recorded last week: Alkaloid, cryst. and precip., 19s. 3d.; hydrochloride, 16s. 9d.; sulphate, 16s. 9d.; phosphate, 14s. 7d. per oz. for 4 oz. or less, net. Rebates are allowed for bulk quantities, as follows: 250 oz., 10 per cent.; 100 oz., 7½ per cent.; 35 oz., 5 per cent.; and over 4 oz., 2½ per cent. Assorted salts on same terms. Fall clause on contracts for 100 oz. and upwards, delivery over six months.

CREAM OF TARTAR.—Makers are quoting 8s. per cwt., less 2½ per cent. discount, nominal and without engagement, for 99 to 100 per cent. material. Dealers are quoting about the same figures.

ETHER (METHYLATED).—Makers' prices are as follows: s.g. 0.750, 1s. 1½d.; 0.735, 1s. 2d.; 0.730, 1s. 2d.; 0.725, 1s. 4d. per lb. in w-quarts; 12 w-quarts, half-penny less and packed in drums or carboys 1d. less.

GUAIACOL CARBONATE.—Some spot offers are rather cheaper than forward prices from the Continent, as follows: two cwt., 9s. 10d.; one cwt., 10s. 0½d.; less than one cwt., 10s. 2½d. per lb. landed.

HEXAMINE.—Free-running crystals are now being quoted at keen prices; five cwt., 1s. 8d.; two cwt., 1s. 8½d.; one cwt., 1s. 9d.; smaller parcels, up to 2s. per lb. Powder, in quantities, 1s. 5d. per lb.

HYDROQUINONE.—Makers' scales of prices continue at the recent reductions. Full scale given last week.

IODIDES.—There is little to add to our recent reports. Makers' quoted prices and distributors' prices for small parcels are substantially unchanged.

LACTIC ACID (B.P.).—About steady; quiet: quantities in carboys, 1s. 4½d. to 1s. 5½d.; in winchesters and bottles, 1s. 6½d. to 1s. 10d. per lb., as to quantity.

METHYL SALICYLATE (B.P.).—Market is steadier with more inquiry being received: ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities in bottles, up to 2s. 1d. per lb.

MERCURIALS.—Makers' prices are as follows:—

	Under 112 lb.	Not less than 112 lb.
	Per lb. s. d.	Per lb. s. d.
Ammoniated lump, B.P. (white precip.)	4 10	4 9
Ammoniated powder, B.P.	5 0	4 11
Bichloride lump, B.P. (corros. sub.)	4 1	4 0
Bichloride powder, B.P.	3 9	3 8
Chloride, B.P. (calomel)	4 10	4 9
Red oxide cryst., B.P. (red precip.)	5 11	5 10
Red oxide levig., B.P.	5 5	5 4
Yellow oxide, B.P.	5 3	5 2
Persulphate white, B.P.C.	5 0	4 11
Sulphide black (hyd. sulph. cum. sulph.) 50 per cent.	4 11	4 10

Net, without engagement. Special prices for large quantities and for contracts deliverable three months.

METHYLATED SPIRITS.—Makers' scale of prices are as follows, to operate to June 30, 1934:—

In One Delivery	Industrial Methylated Spirits	Pyridinised Industrial Methylated Spirits	Mineralised Methylated Spirits (Coloured Violet)
	61 o.p. 64 o.p.	61 o.p. 64 o.p.	61 o.p. 64 o.p.
	Per gall. s. d.	Per gall. s. d.	Per gall. s. d.
500 gallons and upwards	1 6 1 7	1 8 1 9	— —
100 gallons and under 500	1 7 1 8	1 9 1 10	2 7 2 8
30 gallons and under 100	1 9 1 10	1 11 2 0	2 9 2 10
10 gallons and under 30	1 11 2 0	2 1 2 2	2 11 3 0
5 gallons and under 10	2 1 2 2	2 3 2 4	3 1 3 2

Methylated resin finish, 2d. per gallon extra, and methylated shellac finish 4d. over the prices quoted for pyridinised industrial methylated spirits. Industrial methylated spirits (Toilet Quality) 2d. per gallon above the prices quoted for industrial methylated spirits. Industrial methylated spirits of 66 o.p., 68 o.p. and 74 o.p. can be supplied at 1d., 2d. and 4d. per gallon respectively over the prices quoted for 64 o.p. Terms.—Cash in one month, less 2½ per cent. Packages charged, but allowed for at same price when actually returned, carriage forward, in good condition.

METHYL SULPHONAL.—Dealers' duty-paid prices in sterling are about as follows, varying with exchange: two cwt., 18s. 10d.; one cwt., 19s. 8d.; 56 lb., 20s.; small parcels, up to 20s. 9d. per lb.

MORPHINE SALTS AND DERIVATIVES.—The recently revised scales of quantities and prices are as follows: MORPHINE AND SALTS: Alkaloid precip., Meconate and Tartrate (neutral), 23s. 6d. per oz. Acetate, Hydrochloride and Sulphate, 18s. 9d. per oz. MORPHINE DERIVATIVES: Diacetyl, 25s. 7d.; Diacetyl Hydrochloride, 23s. 3d. per oz. These prices are for small lots up to 4 oz., net, 30 days. The following rebates for quantities: 250 oz., 10 per cent., 100 oz., 7½ per cent.; 35 oz., 5 per cent., and over 4 oz., 2½ per cent. Fall clause for contracts of 100 oz. and upwards, delivery over six months. Orders for assorted salts on the same terms, except for 4 oz. or less.

PAPAVERINE.—Makers' new scale of prices, reported last week, are as follows: Pure and sulphate, 13s. 4d.; hydrochloride, 12s. 4d. per oz. for 4 oz. or less, net. Rebates for bulk quantities, as follows: 250 oz., 10 per cent.; 100 oz., 7½ per cent.; 35 oz., 5 per cent., and over 4 oz., 2½ per cent. Assorted salts on same terms. Fall clause on contracts for 100 oz. and upwards, delivery over six months.

PHENACETIN.—The recently reduced rates continue with a fair business being done, Continental material finding it difficult to compete: crystals, five cwt., 3s. 7½d.; two cwt., 3s. 9d.; 56 lb., 3s. 10½d.; smaller parcels, up to 4s. per lb.

PHENAZONE.—Market continues unsteady and competitive; business slow: crystals, five cwt., 9s. 7½d.; two cwt., 10s.; and less, up to 11s. per lb.; with powder, 2½d. per lb. extra.

PHENOLPHTHALEIN.—The much reduced scale of prices of makers recently recorded is maintained: five cwt., 2s. 8d.; two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 3d. per lb.

PHENYL ETHYL BARBITURIC.—Dealers are quoting about 29s. to 30s. per lb. for spot and less for bulk quantities.

POTASSIUM PERMANGANATE (B.P.).—Dealers' prices steady, business fair: quantities in two-cwt. drums, 9d. to 9½d.; druggists' parcels, 9½d. to 10½d. per lb., as to quantity.

POTASSIUM SULPHOGUAICOLATE.—Continental material to come forward is quoted at 6s. 4½d. for two cwt.; 6s. 6½d.

per lb. for one cwt, ex wharf, duty paid. Some spot offers are under these prices.

PYROGALLIC ACID.—Makers' prices are maintained: 56 lb., 7s. 9d.; 28 lb., 8s.; 14 lb., 8s. 6d.; 7 lb., 9s. 3d. per lb., in 7-lb. tins. Higher prices for smaller quantities.

QUININE SALTS.—Sulphate, 1s. 11d.; bisulphate, 1s. 11d.; ethyl carbonate, 2s. 6d.; salicylate, 2s. 6½d.; phosphatate, 2s. 11½d.; hydrochloride, 2s. 4½d.; bihydrochloride, 2s. 8d.; hydrobromide, 2s. 4½d.; bihydrobromide, 2s. 8d.; valerianate, 2s. 11½d.; hypophosphite, 3s. 2½d.; alkaloid, 2s. 8½d. per oz., carriage paid on bulk quantities.

SALICYLIC ACID (B.P.).—Makers' prices; more inquiry: one ton, 1s. 7d.; ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb.

SALOL.—Prices unchanged; market dull: spot, crystals, two cwt., 3s. 10d.; one cwt., 3s. 11½d.; 56 lb., 4s.; smaller parcels, 4s. 3d. per lb.; powder, 2d. per lb. extra.

SANTONIN.—A steady business in small quantities is reported, with the price in the region of £20 per kilo.

SODIUM BENZOATE (B.P.).—One cwt. parcels are steady at about 1s. 7d. per lb. and less for bulk quantities; small parcels, up to 2s. per lb.

SODIUM DIETHYLBARBITURATE.—The scale of prices is steady: spot, one cwt., 13s.; 56 lb., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels, up to 15s. per lb.

SODIUM SALICYLATE (B.P.).—Rather more inquiry and the market is steadier: home trade, powder, two tons, 2s. 0½d.; one ton, 2s. 1d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 7d.; 1 lb., 2s. 8d. per lb.; with crystals one penny per lb. extra.

SULPHONAL—Duty-paid sterling prices are about as follows: crystals, two cwt., 14s. 6d.; one cwt., 15s. 9d.; 56 lb., 16s.; smaller parcels, up to 17s. 4d. per lb.; with powder, 2d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—Makers quote for home trade at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices are about level.

THEOBROMINE.—Dealers' prices for Continental material are as follows: pure, 250 lb., 6s. 6½d.; 100 lb., 6s. 8½d.; 50 lb., 6s. 11d.; less than 50 lb., 7s. 1d. per lb. Sodium salicylate, 250 lb., 6s. 4½d.; 100 lb., 6s. 5½d.; 50 lb., 6s. 6½d.; less than 50 lb., 6s. 7½d. per lb., ex wharf, London, packages extra.

THYMOL.—Very little inquiry: synthetic, fine white, one cwt., 5s.; 56 lb., 5s. 1½d.; 28 lb., 5s. 3d.; 14 lb., 5s. 4½d. per lb.; ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—Market is dull with quoted values unchanged: ex guaiacol or clove oil, ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

Crude Drugs, etc.

A REPORT of the drug auction is given at the end of the Trade Report.

AGAR.—After some weakness the market has recovered and closes steady, business poor; spot, Kobe No. 1, 1s. 11d.; No. 2, 1s. 9d.; Yokohama No. 1, 1s. 9d. per lb.; shipment, Kobe No. 1, 1s. 8d.; No. 2, 1s. 6½d.; Yokohama No. 1, 1s. 6½d. per lb., c.i.f.

ANTIMONY.—Market has been quiet. Chinese crude, spot, £20; shipment, £17, c.i.f. Chinese oxide, spot, £28; shipment, £24 10s., c.i.f.

ARNICA FLOWERS.—Dealers are offering spot supplies at about 9d. per lb.

CAMPHOR.—Market is dull and quoted unchanged: spot, slabs, 2s. 2d.; flowers, 2s. 3d.; tablets, 2s. 5½d. per lb.; shipment, slabs, 1s. 10d.; flowers, 1s. 10d.; tablets, 2s. 1½d. per lb., c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—It is reported from origin that stocks of 1933 peel are now very low, and prices are now mentioned at 29s. 9d. per cwt., c.i.f.

CELERY SEEDS.—Market is quoted dearer at about 1s. 6d. per lb. for small spot parcels.

CLOVES.—Values show a further recovery, market is steady, but rather quieter. Zanzibar, spot, 5½d.; shipment, January-March, 5d.; March-May, 5½d. per lb., c.i.f.

The landings of Zanzibar in London during the two weeks ended January 13 were 990 and the deliveries 73, leaving a stock of 3,439. From January 1 to date, landings of Zanzibar have been 990 and the deliveries 73. Landings of Madagascar for the two weeks ended January 13 were nil and the deliveries 20, leaving a stock of 962. From January 1 to date landings of Madagascar have been nil and the deliveries 20 packages.

COCOA BUTTER.—Prime English is quoted from 8½d. to 9½d. per lb., as to quantity.

COCONUT (DESICCATED).—The recently improved values are maintained, market rather dull. Spot, fine, 15s.; medium, 14s. 6d.; shipment, halves, January-February, 14s. per cwt., c.i.f.

COD-LIVER OIL.—The shipment market for finest Lofoten steam refined non-freezing medicinal oil is tending firmer with the figure at 97s. 6d. per barrel, c.i.f.; spot, in small parcels, 135s. to 137s. 6d. per barrel, ex store, duty paid. The official figures of exports for 1933 show that 107,963 barrels were shipped, compared with 113,970 barrels in 1932 and 92,302 barrels in 1931. Newfoundland finest non-freezing medicinal oil, 132s. 6d. per barrel, ex store. British oil, non-freezing, finest medicinal quality, is at the cheaper price reported recently of 115s. per barrel, c.i.f., London.

COLCHICUM.—Dealers offer spot root at 45s. per cwt. and seeds at 1s. 6d. per lb. for small parcels.

CUBERS.—Spot offers of genuine Singapore are at £9 10s. per cwt. Supplies are limited.

DAMIANA LEAVES.—Spot leaves are being quoted in the region of 1s. per lb.

GELATIN.—Dealers' prices are steady, business on a fair scale: German, gold leaf, 2s. 4d.; silver leaf, 2s. 2d.; bronze leaf, 1s. 10d.; plain label, 1s. 8½d. French, gold leaf, 1s. 10d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 6½d. per lb., in cwt. cases.

GENTIAN.—Some French root is quoted on spot at about 55s. per cwt. for small lots.

GINGER.—The market dealing in West African is dearer at 20s. spot, and for arrival 17s. 9d. per cwt., c.i.f., is asked. Business has been better.

GUM ACACIA.—A little more inquiry, with prices about unchanged: spot, Kordofan cleaned sorts, 33s. 6d.; shipment, February-March, 27s. 9d. per cwt., c.i.f.

HYDRASTIS.—Market is steadier, with a little more business moving. Spot, 4s. 6d.; shipment, 4s. per lb., c.i.f.

IPECACUANHA.—Some few small sales are reported, with Matto Grosso at about 4s. 4½d. per lb.

LYCOPODIUM.—Dealers' spot price is in the region of 2s. 10d. per lb.

MENTHOL.—Business has been unimportant, with quoted prices about maintained. K/S brands, spot, 9s. 3d. per lb. and less for bulk quantities; shipment, January-March, 7s. 10½d.; March-April, 7s. 10½d. per lb., c.i.f. Shippers' prices are over these figures of re-sellers.

MERCURY.—Business has been limited, with the market steady. Spanish-Italian, spot, £9 6s. to £9 10s.; shipment, on the basis of £9 3s. per bottle, f.o.b. Continent.

OPIUM.—The market continues firm. Shipment under the control is nominal at fully 1s. 3d., c.i.f. Spot, from 1s. 4½d. per unit, landed and duty paid.

PEPPER.—A further appreciation in values is recorded, and the market is irregular; a fair business is being done, mostly speculative. Lampung, spot, 5½d.; shipment, January-March, 4½d.; March-May, 4½d., c.i.f. Tellicherry, spot, 5½d.; shipment, March-May, 4½s. Aleppy, spot, 5½d.; shipment, March-May, 4½s. 6d., c.i.f. White Muntok, spot, 8½d.; shipment, March-May, 8d.; April-June, 8½d. per lb., c.i.f. Market was rather unsteady at the close.

PIMENTO.—At the recent advance prices are being steadily maintained. Spot, 3½d.; shipment, January, 3½s.; February, 3½s.; March, 33s. per cwt., c.i.f.

RUBBER.—The market has been fairly steady, but not particularly active, closing fractionally dearer on the week. Standard ribbed smoked sheet, spot, 4½d.; January, 4½d.; February, 4½d.; March, 4½d.; April-June, 4½d.; July-September, 4½d.; October-December, 4½d.

SAFFRON.—Dealers' prices are slightly cheaper: spot, prime B.P., 49s. 6d.; extra B.P., 48s. 6d.; super B.P., 45s. 6d. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Market is steady, with a few small spot sales: spot, native mixed colours, 1s. 1d. to 1s. 2d.; grey Jamaican, 1s. 9d. to 1s. 10d. per lb., as to quantity.

SEEDS.—**ANISE.**—Spot, Spanish, 6½s.; Bulgarian, 43s. 6d.; and Turkish, 42s., duty paid. **CANARY.**—Market dearer. Mazagan on spot sold at 17s., and for shipment business reported at 15s. 3d., c.i.f. **CARAWAY.**—Dutch quiet, 48s., quoted spot, duty paid. **CORIANDER.**—Morocco on spot inclined to go a little better, 16s. 6d. duty paid now quoted. The shipment price remains at 14s., c.i.f. **CUMIN.**—No Morocco or Malta to be had on spot. A parcel of Malta due to arrive at the end of the week and the price is 67s. 6d., landed terms. Morocco for shipment quoted at 62s. 6d., c.i.f. **FFNUGREEK.**—Morocco on spot, 13s. 6d., duty paid. **LINSEED.**—Morocco f.a.q. offering at 21s., duty paid. **MUSTARD.**—English, 21s. 6d. to 30s. per cwt., according to quality.

SENEGA.—The market is quoted a point cheaper and is rather dull. Spot, 1s. 4½d.; shipment, 1s. 3½d. per lb., c.i.f.

SHELLAC.—Market has been irregular, but is quoted dearer on the week. Spot, standard TN orange, 99s. to 104s.; fine orange, 109s. to 145s.; pure button, 110s. per cwt. For delivery, TN, March, 102s.; May, 102s. 6d. per cwt. For arrival, TN, January-February, 94s. 6d. per cwt., c.i.f.

STRAMONIUM LEAVES.—Spot values are dearer at from 65s. to 70s. per cwt. Forward prices are much dearer on shortage.

TRAGACANTH.—The low grades at about 60s. to 70s. are firm. Qualities ranging from £12 to £14 per cwt. have been in fair inquiry, with some business done, and gums of £18 to £20 value, and the good whites have also found buyers, with prices up to £25 per cwt., duty paid.

VALERIAN ROOT.—Some good clean Belgian is offering at about 52s. 6d. per cwt.

WAX (VARIOUS).—Carnauba fatty grey is firmer. In other directions the markets are generally fully steady, particularly forward, and there is a fair inquiry. **CARNAUBA**, fatty grey and chalky grey, 80s., duty paid; 72s. 6d. in bond; shipment, January-February, 72s., c.i.f. **Primeira**, limited offerings on spot at 160s., duty paid; 135s. afloat, and for January-February shipment, 125s., c.i.f. **Mediana**, spot supplies limited; quoted at 145s., duty paid, 130s. afloat and 127s. 6d., c.i.f., January-February shipment. **BEES'**, Dar-es-Salaam, 92s. 6d., ex store; shippers reserved, quoting 87s. 6d., c.i.f. **Abysinian**, spot, 92s. 6d.; 82s., c.i.f. **Benguella**, 92s. 6d., duty paid, and 84s., c.i.f.

Essential Oils, etc.

SPOT business is restricted in volume, and interest in the shipment markets is rather limited. Lemongrass is a strong feature. Sicilian oils are badly neglected. American peppermint is dearer forward in dollars; the Japanese product is not attracting business, but forward prices are maintained.

ALMOND.—Market steady. English, cwt. lots, 2s. 4d.; smaller quantities, up to 2s. 7d. per lb. Foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb.

ANISE (STAR).—Market is steady but business is dull: spot, "Red Ship," in leads, 1s. 10½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d.; shipment, in leads, 1s. 8d.; in tins, 1s. 6½d.; in drums, 1s. 6d. per lb., c.i.f.

BERGAMOT.—There has been a little inquiry for shipment, with new crop in the region of 5s. 8d. per lb., c.i.f. Production is reported to be fully one-third less than in the previous season, due to uneconomic prices.

Bois de ROSE.—Shipment offers of Brazilian have again dried up. Spot is at about 4s. 8d. per lb.

CANANGA.—This market seems to be unsteady for shipment, with some offers easier at about 6s. per lb., c.i.f. Other offers are at dearer figures.

CASSIA.—Spot supplies are very limited. Shipment is steadier and business is reported.

CEDARWOOD.—American in drums is quoted for shipment at about 1s. 5½d. per lb., c.i.f. Duty paid, about 1s. 7d. for fair quantities.

CITRONELLA.—Owing to exchange movements principally Java for shipment is steadier at about 1s. 4d. per lb., c.i.f., but there is not much inquiry about. Ceylon is also a trifle better, with shipment at about 1s. 2½d. per lb., c.i.f., for quantities.

Exports of Java oil: 1933, 1,515 tons; 1932, 991 tons; 1931, 885 tons; 1930, 815 tons; 1929, 850 tons.

CLOVE.—On spot B.P. oil is offering in small lots at about 3s. 4d. to 3s. 6d. per lb. Madagascar for shipment is at 2s. 3d. per lb., c.i.f., in drums.

EUCALYPTUS.—A very fair inquiry continues. Australian, 70 to 75 per cent., 1s. to 1s. 1d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., landed. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—Shippers of Bourbon have firmed up their prices, with the figure now working out on current exchanges at fully 20s. 6d. per lb., c.i.f.

Stocks at origin of Bourbon at the end of the year estimated at four tons; estimated production, 85 tons, leaving 89 tons available for the coming year. Exports: 1933, 79 tons; 1932, 73 tons; 1931, 83 tons; 1930, 72 tons; 1929, 81 tons; 1928, 78 tons; 1927, 71 tons.

GINGERGRASS.—Market has remained dull. Spot, 5s. to 5s. 2d.; shipment, about 4s. 4½d. per lb., c.i.f.

LAVENDER.—There has been very little doing in shipment. Spot business in small parcels reported with prices varying as to quality of oil.

LEMON.—Sicilian new crop hand-pressed is of very little interest here, with offers at about 3s. 9d. per lb., c.i.f., for fair quantities. Californian is steady and occasional spot

business has been done: large drums 48 cents and small drums 49 cents per lb.

It is estimated that production of Sicilian hand-pressed oil is 30 per cent. less than the previous year. Stocks at end of 1933 estimated at 150,000 lb.

LEMONGRASS.—The shipment market is firm and again dearer, with business done at 4s. and 4s. 2d. and upwards, c.i.f., now asked. There may be profit-takers on spot willing to sell at from 4s. per lb.

MANDARIN.—Small parcels of good quality oil on spot are steady at about 15s. 6d. to 16s. 6d. per lb.

NUTMEG.—British-made oil is selling now and remains at about 5s. 4d. per lb., as to quantity.

ORANGE.—Sicilian sweet new crop for shipment seems of no interest here. Quoted in the region of 5s. per lb., c.i.f., French Guinea for shipment continues at extremely attractive prices and is doing practically all the business there is. Californian, spot, one case, 6s cents; two or more cases, 5s cents per lb.

PALMAROSA.—Dull and none too steady. Spot, about 6s. 3d.; shipment, about 5s. 7d. per lb., c.i.f.

PATCHOULI.—Business has been of small account. Spot, about 6s. 4d.

PEPPERMINT.—The market dealing in the Japanese product has been very quiet this week. Spot, about 3s. 1d. per lb.; shipment, January-March, 2s. 9d.; March-April, 2s. 9d. per lb., c.i.f. Japanese shippers' prices are at higher figures. American natural oil in drums is quoted dearer and is firm at 2 dollars 60 cents per lb., c.i.f., and tends to go dearer. Some business is being done.

PETITGRAIN.—The market is steadier, with spot from 4s. 7d. for case lots; shipment, 4s. per lb., c.i.f.

ROSEMARY.—Prices for this oil vary as to quality, with the finest fully is. 8d. down to 1s. 5d. per lb., landed, for fair quantities.

SANDALWOOD.—English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10d.; 14 lb., 7s. per lb. Genuine East Indian Mysore, 20s. per lb., at first-hands.

PEARMINT.—Prices are rather better this week, business quiet. Spot, 6s. 2d. to 6s. 3d.; shipment, 4s. 9d. per lb., c.i.f.

SPIKE.—Shipment prices for the finest quality Spanish oil are very steady at about 4s. 6d. to 4s. 9d. per lb. Some material may be offered at cheaper prices.

WINTERGREEN.—Dealers' spot prices for small parcels are at about 6s. 9d. to 7s. per lb.

WORMSEED.—The dollar price tends to be easier, working out at about 8s. c.i.f.; spot is about 9s. 6d. per lb.

Fixed Oils, etc.

A NUMBER of products in this section are quoted at lower figures, but there is now a steadier tone. Business, however, is poor. Coconut oils are at very cheap prices. Palm oils are cheaper but now very steady. American turpentine is dearer on a firm market. Linseed oil is steady but quiet.

ACID OILS.—Business slow, market steady: coconut and/or palm kernel, 16s. 6d.; groundnut, 17s. 3d.; soya, 15s. 3d., spot. CASTOR.—The market is quoted at cheaper prices for all grades: pharmaceutical, 37s. 6d.; first pressings, 32s. 6d.; second pressings, 29s. 6d. (barrels); cases £4 per ton extra, ex mills, Hull, in not less than one-ton lots; and Bombay, 23s. 3d. (drums), c.i.f. COCONUT.—Very cheap prices are being quoted in this market: deodorised, 25s. (barrels), spot; Ceylon, mill, 14s. 3d. (drums), c.i.f. COTTON.—At the lower prices now quoted the market is steadier: deodorised, 19s. 9d.; common edible, 18s. 4d.; soapmaking, 17s. 9d.; crude, 15s. 6d. (barrels), spot. GROUNDNUT.—Business is rather poor, market steady: deodorised, 26s. 9d. (barrels), spot; crude Oriental, 18s. (drums), c.i.f. LINSEED (RAW, NAKED).—At the figures now quoted the market is steady, business limited: on spot, 19s. 9d.; January, 18s. 1d.; February-April, 18s. 3d.; May-August, 18s. 9d.; September-December, 19s. 3d. Boiled oil, spot, 22s. 6d. OLIVE.—Dealers' prices are about unchanged; business fair: edible, in tins in cases, 70s. per case of ten gallons; B.P., 4s. 6d. per gallon, in 40-gallon barrels. PALM.—At the figures quoted the market is steady but dull: Lagos, 13s. 9d., shipment; softs, 12s. 9d., spot; medium, 13s., shipment; hards, 13s. 9d., shipment; bleached, 16s. 6d., spot. PALM KERNEL.—Quoted at lower figures, business slow: deodorised, 25s. 3d.; crude, 18s. 4d., spot. RAPE.—The market is slightly easier and dull: refined, 28s. 7d.; crude, 27s., spot. RESIN.—Quoted unchanged on a quiet market: B, 12s.; D, 12s. 3d.; F/G, 13s. 3d.; N, 14s. 3d.; W/G, 14s. 6d.; W/W, 15s. 3d. per cwt., ex wharf. SOYA.—Market is steady, business limited: deodorised, 24s. 3d.; crude, 19s. 6d., spot. TURPENTINE, AMERICAN.—Values show a sharp recovery and the market continues very steady: total London stocks, 15,427 barrels. On spot, 47s.

Sudan Gum Acacia Exports

BOXALL & Co. report that exports for November, 1933, totalled 1,373 tons, as compared with 2,905 tons in November, 1932. Exports for the period January-November totalled 15,580 tons, against 18,435 tons during the same period of 1932. The following were the chief destinations:—

DESTINATION	1932			1933		
	Jan.-Oct.	Nov.	Total	Jan.-Oct.	Nov.	Total
Great Britain ...	3,754	724	4,478	2,934	249	3,183
U.S.A.	2,046	487	2,533	2,560	179	2,739
France ...	2,366	562	2,928	1,459	182	1,641
Germany ...	1,860	337	2,197	1,881	176	2,057
Italy ...	1,173	150	1,323	1,121	135	1,256
Belgium ...	906	166	1,072	975	175	1,150
Japan ...	534	18	552	753	20	773
Holland ...	713	139	852	709	88	797
Spain ...	371	66	437	373	41	414
Sweden ...	145	120	265	202	9	211
Australia ...	547	20	567	322	1	323
China ...	168	16	184	152	31	183
Denmark ...	93	7	100	87	14	101
Greece ...	35	5	40	46	4	50
Egypt ...	127	22	149	128	20	148
Argentine ...	102	5	107	113	—	113
Brazil ...	57	25	82	41	—	41

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1934, p. 304.

(From the "Trade Marks Journal," January 10, 1934.)

"ZYMA"; for medicines for whooping cough, insomnia, haemorrhage, dermatitis and gastro-enteritis (3). By Th. Mühlenthaler S.A., Nyon, Canton de Vaud, Switzerland. 543.318.

"EASOFF"; for medicated chewing gum (3). By H. W. Cox, "Parkdene," 104 Walliscote Road, Weston-super-Mare. B544.117.

"ACETYLARSAN"; for medicinal chemicals (3). By May & Baker, Ltd., Church Road, Battersea, S.W.11. 545.284.

"ESTERSIL"; for a liniment containing esters (3). By Johnson & Sons, Manufacturing Chemists, Ltd., 335 Hendon Way, London, N.W.4. 544.797.

"AMERTAN"; for a preparation for the treatment of burns (3). By Eli Lilley & Co., 740 South Alabama Street, Indianapolis, U.S.A. 545.733.

"IOBRINE" over design incorporating trident and sun rays; for medicated preparations of seaweed (3). By H. C. Fairlie & Co., Ltd., Camelon Chemical Works, Falkirk. 545.953. (Associated.)

"DOVIM" and "DOVITE"; for medicinal chemicals (3). "Dopo"; for goods (3) excluding medicated soap and the like. By International Laboratories, Ltd., 10 Phoenix Place, London, W.C.1. 545.995/996 (Associated); 546.570.

"NU-GESTION"; for preparations for indigestion (3). By Nu-Digestion Medicine Co., 79 Piccadilly, Manchester. 546.207.

"CAMFORTOL"; for medicinal chemicals (3). By Sangers, Ltd., 258 Euston Road, London, N.W.1. 546.438.

"SEDABREX"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., Plough Court, Lombard Street, London, E.C.3. 546.618. (Associated.)

"OMNOCAIN" and "PRIMOCAIN"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 546.814/815.

"ZEMAMBA"; for medicinal chemicals (3). By J. Lewis, 201 London Road, Sheffield. 546.812.

"HALCODOL"; for preparations containing cod-liver oil and halibut-liver oil (3). By Fairbank Kirby (Grimsby), Ltd., 385 Cleethorpe Road, New Cleethorpe, Grimsby. 546.891.

"DETTOIDENT"; for all goods (48). By Reckitt & Sons, Ltd., Danson Lane, Hull. 543.854. (Associated.)

"DENTALBIN"; for preparations for the teeth and hair (48). By W. J. Crooke, 104 Brighton Street, Wallasey. 544.165.

"LADYE JAYNE"; for perfumery, etc. (48). By Jarrett, Rainsford & Laughton, Ltd., Alexandra Works, Kent Street, Birmingham. 546.059.

London Drug Auction

Commercial Sale Rooms,
Mincing Lane, E.C.3.

January 18.

AT the Drug Auctions held to-day eight catalogues containing about average quantities were submitted, the offerings covering the usual range of commodities. On this occasion there was a general absence of fresh arrivals offering ; the recent low level of prices not being an inducement for shippers to forward their usual consignments. There was no particular feature to report, the demand generally being slow and limited, but prices on the whole were well maintained, and a fair quantity was expected to be sold after the auctions. ALOES were steady, but quiet. RHUBARB was firmly held at previous rates, and a fair business is reported privately, although little was sold "under the hammer." Of DRAGONS BLOOD, the finer grades are meeting with a better demand. BENZOIN, Sumatra, was firmly held, but neglected. BUCHU met with more demand, especially for the lower grades. SENNA was quiet, and the Alexandrian variety was offering at lower rates.

ALOES.—Cape: Two parcels were offered, including one fresh arrival; fair bright being retired at 36s. 6d. to 37s. 6d. Curaçao: 105 boxes were on offer, and mostly withdrawn at 65s. to 80s. "in bond," according to quality. Zanzibar: Nine cases offered; good liver in leaves at 65s. and dark in skins at 70s. per cwt. "in bond."

ANNATO SEED.—Several parcels offered, comprising 59 bags in all ; Madras being withdrawn at 3½d. and Brazilian at 3d. per lb.

BALSAM.—Only Tolu was on offer, of which seven cases were retired; fair at 2s. 6d. duty paid, and very soft darkish, part drossy, at 2s. per lb. "in bond," at which price the auctioneer announced sales were being made privately.

BENZOIN.—Sumatra: A fair selection was on offer ; fine almondly block was held for £7 and £7 10s.; fair seconds, £6 10s.; thirds, £5 5s. per cwt, all duty paid. Palembang: Five cases good centres, barky ends, retired at 62s. 6d. per cwt. Siam: A fair selection was catalogued ; fine bold almonds of good bouquet retired at £31 ; medium ditto at £28 ; small almonds, £22 to £25 ; grains, £18. 10s. per cwt., duty free.

BUCHU.—A total of 47 bales offered; fair green to rather yellow rounds retired at from 9d. to 11d. A parcel of five bales of pale yellow sold cheaply "without reserve" at 6d. to 6½d. per lb. Ovals, fair green, rather bronzy, two bales were sold privately, and the remainder were withdrawn at from 7½d. to 8d. per lb.

CALUMBA.—A parcel of twenty bags, fair washed, was held for 30s. per cwt., duty free. Sales are reported privately at this figure. There have been no arrivals of natural sorts for a considerable period.

CHAMOMILES.—Only a very small quantity was available, and two bales of fair colour were limited at 310s. per cwt., duty free.

CHAULMOOGRA OIL.—Nineteen cases of *Hydnocarpus* were held for 11d. per lb.

CIVET.—Six horns, of fairly good quality, were retired at 7s. 6d. to 8s. per oz.

COLOCYNTH.—Several parcels were offered and withdrawn at prices ranging from 4d. to 9½d. per lb. "in bond," according to quality.

CROTON SEED.—In fair supply, and seventy-seven bags of good quality retired at 70s. per cwt.

CUTTLE FISH-BONE.—Sixty packages of East Indian bone were withdrawn at from 4½d. to 9d. per lb., according to grade.

DERRIS ROOT.—A small lot of five bales, of fair fibrous, testing 2.30 per cent. Rotenone, retired at 7½d. per lb.; a further lot of fifteen bales arrived too late for the auction.

DRAGONS BLOOD.—There was a fair selection of good quality lump on offer, but whilst no sales were made "under the hammer," fair progress is reported privately. Fine reboiled lump was held for £27; good at £24; fair part blocked at £23. Dull reboiled pickings at £19 per cwt. All these parcels were "in bond."

ERGOT.—Ten bags of fair Russian were offered at 1s. 6d. per cwt., and a similar quantity had been sold prior to the auction at the same price. This product is fully steady.

EUCALYPTUS.—A lot of four drums, analysed by Messrs. Salomon & Seaber as testing 72.3 per cent. eucalyptol, but not B.P., retired at 9½d. per lb.

GAMBOGE.—Five cases were offered ; fine Siam pipe at £14, and good Saigon at £13 per cwt., "in bond."

GUM ACACIA.—No Kordofan sorts on offer, but two lots of bleached were available at from 65s. to 75s. per cwt., according to colour. Privately the forward market is quite firm at the recent decline.

HENNA.—Still in very small supply, and 13 bales of brown leaf retired at 45s. per cwt. Market firm.

HONEY.—Quiet and unchanged, with prices fully steady for remaining stocks. Only fifteen barrels white set Dutch Guiana was sold at 37s. per cwt. duty paid. There were no bids for Jainaican, and values remain at 39s. to 50s. per cwt., with dark liquid manufacturing, 39s. to 40s.; dark amber, 42s. 6d.; pale amber, up to 50s. per cwt., as to quality. Guatamala was held for 45s. per cwt. duty paid. Russian, two parcels were held for 23s. 6d. to 25s. per cwt. "in bond," but the flavour was rather poor.

IPECACUANHA.—Only Minas was offered, and seven bales of fair quality retired at 4s. per lb. No Matto Grosso was included in the catalogues.

JALAP.—A parcel of eleven bags Vera Cruz, rather "sliceey," retired at 1s. per lb., duty free ; a bid of 9d. per lb. to clear was refused.

KAMALA.—Fifteen bags of 5 per cent. ash were held for 11d., at which price business is reported privately.

KOLA NUTS.—Twenty packages offered ; 2d. per lb. was refused for fine brought W.I. halves.

LOBELIA HERB.—Six bales of fair quality retired at 2s. per lb., duty free.

MYRRH.—Fair to good Aden sorts were on offer, and firmly held at up to £6 5s. per cwt. "in bond." A bid of 65s. was made for ten bags of fair, part woody.

NUX VOMICA.—Several small parcels of Cochin were offered : washed at 14s., and unwashed at 12s. per cwt.

RHUBARB.—Whilst nothing was sold "under the hammer," several lots had been disposed of prior to the auction. Shensi: A fair selection of good quality root was available at from 3s. 9d. to 4s. per lb., duty paid. Canton: 2s. 1d. to 2s. 3d., duty paid. High dried, flat, untrimmed horny, at 1s. 6d.; rough round, 1s. 3d. to 1s. 4d. per lb., duty paid.

SARSAPARILLA.—Native Jamaica, retired at 11½d. to 1s. 1d.; grey Jamaica, 1s. 7d. duty paid. Mexican, 7½d. "in bond;" Honduras, 1s. 8d. and 1s. 10d. per lb.

SENNA.—Alexandrian: The supplies consisted chiefly of pods, of middling quality and the manufacturing grades, which all retired at slightly lower rates. Tinnevelly: Offerings were very moderate, and no sales took place.

SPURGEON.—A nice lot of twenty bales in all was on offer at 30s. per cwt. Ten bales of brown were withdrawn at 22s. 6d. per cwt., duty paid.

STROPHANTHUS SEED.—Two parcels, totalling eight bags, of 100 per cent. Kombé, were retired at 4s. 7d. per lb., duty free.

TRAGACANTH.—A parcel of six cases, of fair pale thin flake seconds, was retired at £22 10s. per cwt. duty paid.

TURMERIC.—138 bags were withdrawn : Madras finger at 21s. 6d. and Cochin, split bulbs, at 15s. to 16s. per cwt.

WAX.—In all twenty-six bags Dar-es Salaam of good bright mixed colours were retired at 92s. 6d. per cwt. duty free. A lot of thirteen cases, Calcutta bleached, slightly off-colour, was limited at £5 10s. per cwt.

The next drug auction will be held on March 15.

American Peppermint Oil

EXPORTS of American peppermint oil during the first six months of the years 1931 to 1933 were as follows:—

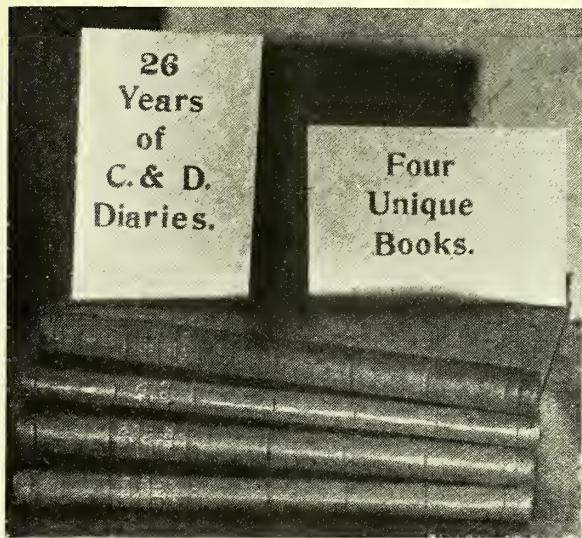
	Quantity	Value
1931	99,530 lb.	\$205,700
1932	120,000 lb.	\$198,200
1933	123,300 lb.	\$277,300

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Potted C. & D. Diaries

SIR.—Xrayser's remark (*C. & D.*, December 30, p. 777) regarding the "formidable array of *C. & D. Diaries*" behind his desk prompts me to pass on a little idea of my own. About every six years I tear out anything I wish to keep from the *Diaries* for those years and bind



them into one volume. The photograph shows four volumes enclosing all the literary matter of the diaries from 1906 to 1932, and occupying a small space.

Yours truly,
F. H. ROWCROFT.

Maidstone.

[All the same, we do not advise splitting up *C. & D. Diaries*. One never knows what may be wanted.—EDITOR.]

Irish Free State Registered Druggists

SIR.—I feel I must again thank you for the generous amount of your valuable space you have from time to time given me. I would ask a further concession for the purpose of replying to Mr. O'Rourke (*C. & D.*, January 13, p. 55). The real question at issue is more than Mr. O'Rourke states; he seems to have forgotten that his motion sought to prohibit not alone the manufacture but also the importation and, more important still, the sale of the poisons by others than duly qualified pharmaceutical chemists. If Mr. O'Rourke will read Section 17 of the Act [of 1890] which he quotes he will find the following:

"Any person or persons lawfully keeping open shop for selling, retailing, or mixing poisons, shall personally manage and conduct such shop and the retailing and mixing of poisons therein, or shall employ for the purposes aforesaid, as an assistant or manager in such shop, a duly registered chemist and druggist, or registered druggist, or pharmaceutical chemist, or licentiate apothecary, and such person or persons lawfully keeping open shop as aforesaid, shall for the purposes of this Act and of the principal Act, be held to be the retailer and compounder of poisons aforesaid therein." (Italics are mine.) And yet Mr. O'Rourke quotes this very Act to prove that the registered druggist is not entitled to undertake the manufacturing or compounding of poisons. Surely this objective code which Mr. O'Rourke quotes is all against his point of view. Further, the examination questions quoted by me (which are very far from being isolated as reference to any of the examination papers will show) were quoted to prove my statement (which

Mr. O'Rourke stated "grossly exaggerates the educational requirements of candidates for the Registered Druggist examination") that the candidate for the Registered Druggist examination is examined as to the mode of preparation, the drugs contained in the preparation, and the dose, if any, of the preparations contained in the B.P. My claim to a legal right to compound poisons is supported not by an appeal to Mr. O'Rourke's reason but by positive law as quoted above. This right is also upheld in the recent Irish Free State Dangerous Drugs Bill.—Yours faithfully,

G. DARLINGTON.
Sutton, co. Dublin.

A Medical Menace

SIR.—"Quis Nos Agebit" (*C. & D.*, December 30, p. 801) remarks that the Government cannot be under any delusion concerning medical dispensing, and would support an official move to have all dispensing in public service schemes done by qualified men. He must know that no Government run on party lines could exist if it disregarded the wishes of powerful bodies, however obvious might be the claims of the weaker parties. He says that we should present our case to some public body, such as the coal-mining industry. I do not live in a coal-mining district, so cannot claim any knowledge of medical and pharmaceutical practice there; but I think such an appeal would produce a rather surprising answer. The insured person frequently has to wait from one to two hours in the surgery before he sees the doctor; after that he has to walk to the pharmacy, and by the time he arrives there he is, to use the common phrase, fed up, and when told that he will have to wait again he is far from pleased. During the rush hour at night it is not uncommon to take in a dozen scripts in as many minutes, so that somebody must be kept waiting, and the remarks from some of these customers are far from encouraging to the idea of dispensing for the chemist. Many of them compare this system to the old one, where they got their advice and medicine at the same place and the same time. "Quis Nos Agebit" also says that some would think that the inclusion of Government nominees on the Council of the Pharmaceutical Society would be a blessing. But if the Government instructed its nominees to introduce some measure, one can hardly see the Council defying them and refusing to adopt it. The control of the Council by the general body of members has passed away with the abolition of the general meetings.—Faithfully yours,

CONTROLLED (9/1).

Apprenticeship

SIR.—The best discussion yet on the apprenticeship proposals is the one which comes from Glasgow (*C. & D.*, December 30, p. 780), which is to be expected considering the more professional outlook prevailing in pharmacy north of the Tweed. One member inquired whether paragraph 5 meant two classes of apprentices, one indentured and the other not. Surely the indentures are the sign of apprenticeship, and without them a youth is merely an employee. The term "work" was defined as the ordinary work of pharmacy; to understand this definition it is necessary to have another one of the word "pharmacy." The ordinary work of the pharmacist consists of a heterogeneous mixture of jobs, all of which come into the proper training of an apprentice if he is to earn his living in a chemist's shop, but few of which appear in the curriculum of the schools of pharmacy or the syllabus of the Qualifying examination. Then it was stated that it would be necessary for a pharmacist wishing to train an apprentice to state the number of prescriptions dispensed; does this include Insurance scripts, or is it taken to mean only those we usually term private prescriptions.—Yours truly,

INDENTURED (8/1).

The Good Will of the Retailer

SIR.—I have read with considerable interest the letter signed "A. R." in your issue of January 6, on the good will of the retailer. As a manufacturer and national advertiser, I would like to ask for the hospitality of your columns to discuss one or two of the questions raised. At the outset, what does "A. R." mean by profit, and what does he regard as a fair profit? Does he refer to the actual cash which any given proprietary article makes for him in the course of a year, or does he refer merely to percentage profit? Within the last few years there has been a growing tendency for chemists to demand increasing percentage profits, and in some cases to push non-advertised lines showing a high percentage profit against similar nationally advertised articles on which the percentage profit is lower. Is this policy in the ultimate interests of the chemist? Two articles, A and B, are offered to a chemist. Both retail at the same price. A is advertised and shows 25 per cent. profit on selling price; B receives no advertising support and shows 40 per cent. profit. Now it is a mere matter of arithmetic to show that, if in a given period the advertising of A produces 5 units of sales to 3 units of sales of the non-advertised B, then the retailer stocking A will make more cash profit than his opposite number who pushes the non-advertised B. It may be argued that the initial outlay is greater. This may be admitted, but on the other hand, the advertised line is a certain seller, while the non-advertised line may remain for months on the shelf. Dead stock is an evil to be avoided. Again, by pushing non-advertised lines, a retailer tends to destroy the value of advertising, and thereby to perpetuate a system which requires him to stock twenty lines of a given type, where six or seven would be ample to meet all reasonable demands. It is generally admitted that no article can achieve a really large sale unless the public are continually reminded of its use. This costs money. Many large sellers in the chemists' group of proprietary articles have from £10,000 to £50,000 spent on them annually, and this expenditure can be looked upon as an insurance, paid for by the manufacturer, that the goods do not remain unasked for, on the shelf of the retailer, for any appreciable length of time. It is surely unreasonable, then, to expect the same percentage profit on an article whose sale is assured as on one whose early disposal is purely a matter of chance. One vital point. The manufacturer has a duty, not only to the retailer, but also to the general public who are the ultimate purchasers. What article can represent fair value to the public which, in addition to the cost of manufacture, freight and carriage, an extensive advertising service, and possibly a sales organisation, has to support a charge of, say, 50 per cent. on selling price for profit to the retailer? Without the nationally advertised proprietaries, could the chemist exist?—Yours faithfully,

NATIONAL ADVERTISER (16/1).

More Work—Less Profit

SIR.—Facts and figures in business affairs are always of more value than mere speculation. For this reason I append the following table, extracted from my December account book:

	1931	1932	1933
Sales transactions	3,671	4,546	4,695
Average sales per customer	12.26d.	9.45d.	8.55d.

These figures reveal the fact that my efforts to beat the depression by improved shop lighting, special window shows and advertising have brought in a steadily increasing number of customers. But am I any better off? On the contrary, with the extra work has gone a decline in returns, owing to the fall in retail prices and diminished spending capacity of shoppers. What is the remedy? Obviously, to persuade customers to buy more freely. Some of my customers are out of work, others are working part-time only. All are obsessed by the craze for cheapness. Now that the new Pharmacy Act is in force we shall soon be paying extra for the privilege of losing more trade. What can one do about it?

Yours faithfully,
SMALL PROPRIETOR (16/1).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. C. B. (France).—MOTOR-CAR BODY POLISH.—The No. 1 recipe in the *C. & D.*, 1932, 11, 712 may be too dilute for a climate such as that of the Riviera, and a recipe containing less water and more solid matter may be preferable:—

Diatomite earth	...	...	8 parts
Paraffin	...	...	2 parts
Machine oil	...	...	6 parts
Oleic acid	...	...	1 part

The above may be too expensive; if so, it may be mixed with No. 1 in almost any desired proportions.

The diatomite dust must not be too fine or it will not remove dirt from the car. If it is too coarse it will scratch the car. The machine oil should not be too thick. "Light machine oil" which flows very readily is best. A mineral oil of similar consistency to huile de noyaux should be cheaper and equally satisfactory. The precise oil does not matter, and any cheap oil, if not too thick, will do. If the emulsion is not sufficiently stable a little soap may be added. Most of the modern motor-car polishes depend on: (a) a powder which rubs off dirt without scratching; (b) paraffin; (c) a detergent, such as oleic acid, soap, or isopropyl alcohol; (d) a thicker oil or glycerin to make the mixture less fluid. The best proportions must be found by trial because they differ with each material and even with the same material from different sources. One very cheap polish, much used by public garages, consists of:—

Paraffin	...	...	...	1 part
Petrol ("Essence")	...	...	2 parts	.

Sometimes a small proportion of machine oil (about 2 per cent.) is added to give the liquid a better grip on the surface to be cleaned. A little diatomite or silica flour (silica dust) may be added if a car is very dirty.

Tree fern (10/38).—The plant submitted for identification is a *Hymenanthera*, a genus of Australian shrubs belonging to the violet family. The branches with white fruits are probably those of *Hymenanthera crassifolia* Hook, a plant of New Zealand cultivated in Kew, and several other parts of Great Britain. It is an ornamental shrub, growing to a height of four to six feet, and thriving in a peaty or loam soil. There are seeds in these fruits which seem to be mature and might be used for propagating purposes. The cuttings are also used for this purpose; these should be placed in sandy soil and kept in a warm temperature under glass, especially at this season of the year.

Rétroupe of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," January 15, 1884

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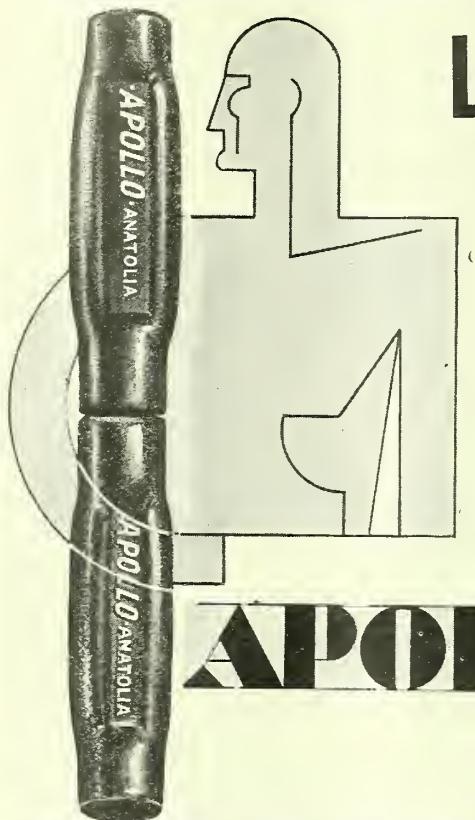
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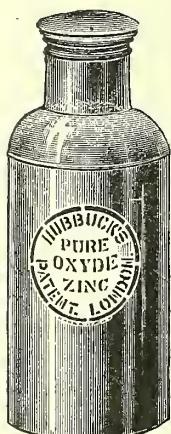
Made in two sizes, nominal $\frac{1}{2}$ lb. and 1 lb.

Also makers of Paraformaldehyde Tablets and Dania Brand Formanganate Cakes for fumigation purposes.

RICHARD DANIEL & SON, LIMITED

Phone + Derby 2222 (3 lines) + Grams + Dania, Derby + MANSFIELD Rd. DERBY +

Manufacturers to the Trade.



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is warranted to contain upwards of

99.9 PER CENT.

of pure oxide; in fact, the impurities are not traceable

Sold by the following Wholesale Druggists in Boxes of 7 lb. and 14 lb. stamped by the Manufacturers: also in 1-lb. Boxes and 1-lb. Glass Bottles:

Allen & Hanburys, Ltd.	Hodgkinson, Prestons & King
Ayton, Saunders & Co., Ltd.	Horner, L. A., & Sons
Bell, Jno., & Croyden	Huskisson, H. O., & Co.
Bell, John, Hills & Lucas,	Lofthouse & Saltmer, Ltd.
Ltd.	Mackay, Jno., & Co., Ltd.
Bleasdale, Ltd.	May, Roberts & Co., Ltd.
Boots Pure Drug Co., Ltd.	Oldfield, Pattinson & Co.
British Drug Houses, Ltd.	Pinkerton, Gibson & Co., Ltd.
Brook, Parker & Co., Ltd.	Potter & Clarke, Ltd.
Burgoyne, Burbidges & Co.,	Raines & Co.
Butler & Crispe Ltd.	Raines, Clark & Co., Ltd.
Coekburn & Co., Ltd.	Rankin & Borland
Dakin Brothers	Silverides, R. B. G.
Duncan, Flockhart & Co.	Smith, T. & H., Ltd.
Evans, Gadd & Co., Ltd.	Southall Bros. & Barclay,
Evans Sons Lescher & Webb,	Ltd.
Ltd.	Sunner, R., & Co.
Fenwick & Co.	Taylor, Jas. (Trongate), Ltd.
Gale & Co.	Thompson, John, Ltd.
Glasgow New Apothecaries	Wilkinson & Simpson, Ltd.
Co.	Willows, Francis, Butler &
Goodall, Backhouse & Co.	Thompson, Ltd.
C. R. Harker, Stagg &	Woolley, Jas., Sons & Co.,
Morgan, Ltd.	Ltd.
Harkness, Beaumont & Co.,	Wright, Layman & Umney,
Ltd.	Ltd.
Hatrick, W. R., & Co.	Wyleys (Lim.)
Hirst, Brooke & Hirst	

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C.3

MANUFACTURERS OF WHITE LEAD, WHITE ZINC, PAINT OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen Street, Melbourne.

Barry, E. J., New York	Muth Brothers & Co., Baltimore
Finlay Dicks & Co., New Orleans	Palmers, Ltd., Montreal
E. Fougera & Co.,	S. B. Penick & Co., Inc.,
90-92, Beekman Street,	New York
New York	Roller & Shoemaker, Philadelphia
Chas. L. Husking & Co., Inc.,	Schiffelin & Co., Inc., New
155, 162, 164 St., New York	York
Lehn & Fink, Inc., N. York	Shoemaker & Busch, Philadelphia
McKeever & Robbins, Inc.,	
New York	



ARSENICALS FOR THE TREATMENT OF SYPHILIS

TRADE
MARK

NOVOSTAB BRAND NEOARSPHENAMINE

NOVOSTAB possesses high therapeutic activity combined with low toxicity. It may be administered either in aqueous solution or dissolved in Thiostab (sterile sodium thiosulphate solution).

TRADE
MARK

STABILARSAN BRAND ARSPHENAMINE DIGLUCOSIDE

A STABLE compound of arsphenamine and glucose supplied IN SOLUTION READY FOR USE.

TRADE
MARK

SULPHOSTAB BRAND SULPHARSPHENAMINE

THE Arsphenamine Compound recommended for deep subcutaneous or intramuscular injection. Particularly suitable for Congenital Syphilis.

Novostab, Stabilarsan and Sulphostab are manufactured under Licence No. 19, Therapeutic Substances Act, 1925 and are approved by the Ministry of Health for use in Public Institutions.

Literature on any of the above products will be sent on request

TELEPHONE:
Nottingham 45501
TELEGRAMS:
Drug Nottingham

WHOLESALE AND EXPORT DEPARTMENT
BOOTS PURE DRUG CO. LTD
NOTTINGHAM

ENGLAND

MAKE SURE
of pushing up
each month's
figures

Don't wait to see if next month brings an increase in profits—make certain of it—push Snowfire Glycerine Jelly. This is a really "live" line. Sells as soon as you show it. Makes a regular customer of every woman who tries it. Customers find it good value for money—you'll find it an extra-profitable line too. Order good stocks at once.

Snowfire
GLYCERINE
Jelly
Vanishing

And for use at night to vanish "chaps," there's a big demand for SOFT SNOWFIRE TABLETS and SOFT SNOWFIRE
Made by F. W. HAMPSHIRE & Co. Ltd.,
Sunnydale, Derby

Agents:
Canada: Wilfred Noble & Co., 208 Victoria St.,
Toronto.
Australia: Messrs. Salmon & Sprag-
ton (Australia) Ltd., 218 Kent St., Sydney, N.S.W.

STORMY WEATHER
means more
customers for



"no risk of coughs
when this comes home"

KAY BROTHERS Ltd., STOCKPORT

Gum Shellac
" Copal
" Damar
" Acacia
" Mastic
" Benzoin
" Tragacanth
Japan Wax

A. F. SUTER & CO., LTD.

133 Fenchurch St., LONDON, E.C.3

Telephone Nos.: MONUMENT 0347-0348

Telegraphic Address: SUTERESIN, FEN, LONDON.

FINEST QUALITY GUARANTEED
CRUDE IODINE NOT LESS THAN
99%

EVERY CHEMICAL & INDUSTRIAL USER SHOULD
APPLY FOR CURRENT PRICES & CONDITIONS
TO

ANTONY GIBBS & SONS
22 BISHOPSGATE, LONDON, E.C.2

representing

ASOCIACION de PRODUCTORES de YODO de CHILE

Remogland CHEMICAL
COMPANY PRODUCTS

REMOGLAND Tablets and Ampoules (Male and Female).
Tablets in bottles of 40 and 100.
Ampoules in boxes of 12.

REMOLYSIN in treatment of OBESITY.
Tablets in bottles of 50 and 100.
Ampoules in boxes of 12.

FORTOTESTIN Female Tablets—(contain no thyroid).
Male Tablets in bottles of 100.

REMOSEPT Vaginal antiseptic tablets in tubes of 12.

Distributors:—LYNDWOOD & CO., 37 Red Lion St., London, W.C.1
Stockists:—BUTLER & CRISPE, 80/82 Clerkenwell Rd., London, E.C.1
and all other Wholesalers.

Your Wholesale House
can supply

66 **EPHETONIN** **99**
TRADE MARK **SYNTHETIC EPHEDRINE** **BRAND**



An active campaign to the
Medical Profession, and the
interest thus created, justifies
your stocking this
profitable line.

E. MERCK

CHEMICAL WORKS

DARMSTADT

Samples and Literature sent on request to Medical Practitioners

H. R. NAPP LIMITED,

3 & 4, Clements Inn, LONDON W. C. 2 (Sole Concessionaires for the U. K. and Irish Free State)



Finest Norwegian **COD**
LIVER OIL

A PRODUCT OF
THORNTON
& ROSS LTD.
Milnsbridge
Huddersfield

Now is the time to look ahead and prepare your stocks. An important line that should not be neglected is Cod Liver Oil, and we should like to draw your attention to our "Pennine" Brand. Always a good seller, this Oil is hygienically packed in attractive amber bottles in 4, 8 and 16 oz. sizes.

Write for prices and full particulars.



Enteritis, diarrhoeas and intestinal infections. Two ampoules per day to be administered by mouth.

ENTEROFAGOS

POLYVALENT INTESTINAL BACTERIOPHAGES

Treatment
of choice for
sucklings.

Absolutely innocuous.

CONTINENTAL LABORATORIES, Ltd., 30 Marsham St., London, S.W.1

VICTORIA 2041

Distributors of TAXOL, BOTOL, DETENSYL, etc.

TAXOLABS, SOWEST, LONDON



JONES for METHYLATED SPIRIT

ALL STRENGTHS IN STOCK
PROMPT DELIVERIES IN CASKS,
DRUMS OR TANK LORRY

Send your enquiries to

JONES & CO. (METHYLATORS) Ltd., Bow, London, E.3

Telegrams: "Methspirit, London."

Telephone: Advance 3210 (2 lines)

Antiphlogistine

Brand Dressing

HUMAN & VETERINARY
MADE IN ENGLAND

Write for Special Quantity Terms

The Denver Chemical Mfg. Co., London, E.3

There's a big demand for "ZETT" for Marmalade making at Home

Striking advertisements now appearing in the leading women's publications are telling your customers about "ZETT," the pure fruit pectin in convenient powder form, which simplifies home Marmalade making.

Are you prepared for the demand? Your customers will be making Marmalade now, which means that they will want "ZETT" now. What about your stocks?

We shall be pleased to send you advertising material, show-cards and recipe leaflets on request.

Sell "ZETT," and get your share of increased profits both now and in the summer, when satisfied customers will come back again for "ZETT" when they start to make jam.

"ZETT"

is packed in sealed, cellophane-wrapped packages which retail at

7½d - 1/2 - 2/-

TRADE PRICES :

5/7½ - 10/6 - 18/-

Per dozen nett.

Manufactured by BOVRIL LTD.
148/166 OLD STREET, LONDON, E.C.I



A *fast selling*
ITEM

Display Mistol where your customers can see it, and watch it sell. It stops colds. Quickly clears the head and relieves nasal congestion. Also used as a gargle for sore throats.

Doctors everywhere recommend and prescribe Mistol and it is now advertised in National publications. Order Mistol to-day.

(1 doz. 1/3 size Mistol are charged as 11 only, carriage paid. 1 doz. 2/6 size charged as 11 only, carriage paid)

STEMCO Ltd
128 Albert St., Camden Town

N.W.1

PURE MALT EXTRACT

with FINEST

NORWEGIAN COD LIVER OIL

The Brand that does not separate nor crystallize.

Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.

THE BRITISH DIAMALT COMPANY SAWBRIDGEWORTH - - HERTS.

London Office :

116 Church Road, Upper Norwood, S.E.19.

Phone : LIVINGSTONE 3583.

DRIED YEAST

Produced from the celebrated "D.C.L." pure culture Yeasts, obtainable in the following grades :—

- (1) For fermentation or baking purposes.
- (2) For medicinal use, in ground or powdered form.

YEAST TABLETS

In Bottle or Bulk

- (1) Live—or fermenting.
- (2) Silent—or non-fermenting.

DRY MALT EXTRACT

A kindred product to the world-renowned "D.C.L." Malt Extract.

Samples and prices may be obtained from :—

THE

DISTILLERS COMPANY LTD.,
12 TORPHICHEN ST., EDINBURGH

or :—

THE UNITED YEAST COMPANY LTD.
LONDON, BRISTOL, BIRMINGHAM,
MANCHESTER, LEEDS & NEWCASTLE

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes

GUARANTEED ABSOLUTELY PURE

MIDGLEY & PARKINSON, LTD., Warren Works Pudsey, LEEDS

Sole selling agents for Great Britain—

THE OLD STRAND CHEMICAL & DRUG CO., LTD.

Audrey House, Ely Place, London, E.C.1

THE ORIGINAL BLACK BEER

For over a century Hobson's Black Beer (non-intoxicating) has been well known. Backed by sustained advertising there is a steadily increasing demand. Special agency terms to wholesalers are now available in certain districts. Own name literature and other sales aids gladly supplied. *Wholesale enquiries invited.*

JOSEPH HOBSON & SON, Ltd., Regent St., LEEDS

'Phone : LEEDS 25270 Telegrams : "SPRUCE," Leeds

'FLU PREVENTIVE PENDANT

FOR WEARING ON THE CHEST

SURPRISINGLY EFFECTIVE

*WILL INCREASE YOUR SALES FOR IODINE.
TO RETAIL AT 6d. 33/- per 100. SAMPLE 6d.*

BURALL BROTHERS, WISBECH, CAMBS.

MEDICINAL CAPSULES

*ACCURATE AND DEPENDABLE
SPECIAL LOW QUOTATIONS FROM MAKER
J. G. ROBBINS, 130 ROMFORD RD., LONDON, E.15*

6^d
Centurion
SERIES



8 popular varieties of
LOZENGES and PASTILLES

4/- per dozen
12 doz. @ 3/9

Display outers
of 1 doz.



Ernest Jackson & Co. Ltd.
CREDITON, DEVON

Tel. Add.: Jackson, Crediton
Tel. No.: Crediton 10

London Office: Plaintain Place, Crosby Row, Borough, S.E.1 Hop 2668

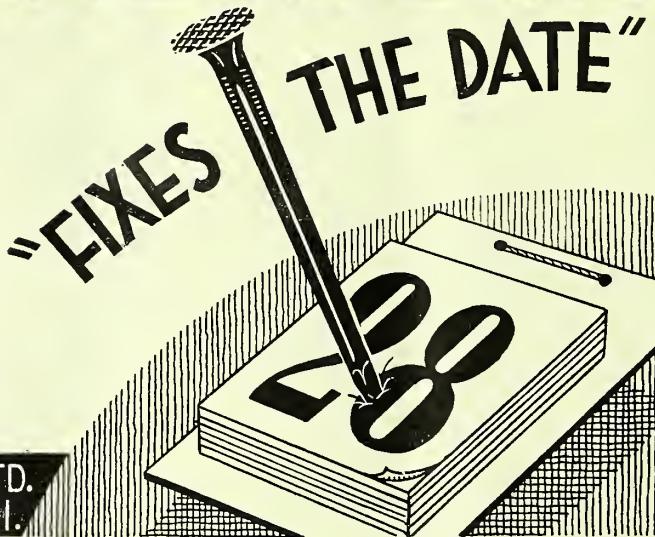
TOTAL EXTRACT OF OVARY RICH IN FOLLICULIN

CRINEX

MENOPAUSAL DISORDERS
AMENORRHOEA
DYSMENORRHOEA
OLIGOMENORRHOEA

Bottle containing approx. 280 drops
240 mouse units

RETAIL PRICE 4/6



Taxolabs, Sowest, London.

CONTINENTAL LABORATORIES LTD.
30 Marsham St. London S.W.1.

Victoria 2041.

OPENING A PHARMACY

We are pleased at any time to make arrangements from our Exeter Offices for opening orders.

To all those, however, who are near London, and will be in the City for the purchase of fittings, chemicals, drugs, stock, etc., we extend a hearty invitation to our London Office (29, Farringdon Street, E.C. 4), where there is a fine assortment of samples, and where details of orders, large or small, can be discussed and settled.

Perhaps we may be permitted to add that as the best labels are worth while we supply them.

JAMES TOWNSEND & SONS.

EXETER Trunk Calls
3965.

LONDON Calls
Central 8426.

DUTCH DROPS *Glasviley*
The Original HAARLEM OIL

Also in Capsule Form.

We are Sole Distributing Agents for the British Isles, British Colonies, Scandinavian Countries, Spain and South America.

BROOK, PARKER & CO., LTD., BRADFORD

PHOSPHATE OF SODA, Pure

For Food Purposes
ASK FOR SAMPLE AND PRICES

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL
Telephone: Giffnock 414 (2 lines). Teleggrams: "Perryope, Nitshill."

H. E. STEVENSON & Co., Ltd.
Wholesale Export Druggists

10 Paneras Lane,
Queen Victoria Street, London, E.C.4

Halibut Liver Oil

Finest Refined Quality

Vitamin content A & D

40/50 times stronger than Cod Liver Oil

Average Dose—Three Drops

BOWRING'S — LIVERPOOL

PRODUCERS & REFINERS OF THE LARGEST RANGE OF

STANDARDISED VETERINARY COD LIVER OILS

SPECIFICATIONS AND VITAMIN POTENCY GUARANTEED

*Write for samples and particulars of methods
employed for assaying Vitamin Potency, to*

C. T. BOWRING & Co., Ltd.
20 CASTLE STREET
LIVERPOOL

Telephone :
BANK 1336
(4 lines)

Telegrams :
" BOWRING "
LIVERPOOL

LOSALL'S SALT

Sells freely and readily. PAYS 50% ON OUTLAY
An infallible remedy for

**GOUT,
RHEUMATISM,
ECZEMA
and SKIN
AFFECTIONS.**

P.A.T.A.

4 oz. tins 1/-
8/- doz. net

8 oz. tins 1/9
14/- doz. net

Bottles 2/-
16/- doz. net



Attractive advertising matter supplied on application
SOLD EVERYWHERE

Manufactured by
LOFTHOUSE & SALTMER, Ltd.
HULL

= Robb's =

NURSERY BISCUITS
& BISCUIT POWDER
DIETETIC BISCUITS for
DIGESTION & GOOD HEALTH
DIGESTIVE RUSKS for
Infants and table use
CHARCOAL BISCUITS
for indigestion, obesity, etc.
BROWN DIGESTIVE,
WHEATMEAL, OATMEAL,
& CRACKNELL BISCUITS
are recommended as being
highly nutritious

OBtainable from all principal wholSALERS
Showcards, Samples and Literature on application to :

Alex Robb & Co. Ltd.

(Dept. C T.2), NURSERY BISCUIT FACTORY
ATKINS ROAD, LONDON, S.W.12



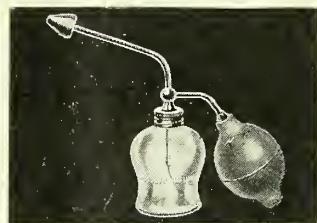
ATLAS ATOMIZER No. 20. 30/- per dozen.
A compact and dependable nasal atomizer for oils or aqueous solutions.



ATLAS ATOMIZER No. 29
Price 40/- per dozen.
Gives a continuous spray
with oils or aqueous solu-
tions. Does not drip.



DeVILBISS ATOMIZER No. 15
Price 58/- per dozen.
Nose and throat Atomizer for
either oils or aqueous solu-
tions. Adjustable tip permits
spraying in any direction.



ATLAS ATOMIZER No. 25. Price 30/-
per dozen.
Continuous spray atomizer for either
oils or aqueous solutions.

With all their advantages DeVILBISS Atomizers are reasonably priced. They are ABSOLUTELY GUARANTEED and will be repaired or replaced free of charge if found unsatisfactory. Conspicuously displayed, DeVILBISS Atomizers sell themselves and their use stimulates the sale of the solutions used in them.

AEROGRAPH COMPANY LIMITED

43 HOLBORN VIADUCT, LONDON, E.C.1

Sole Distributors of DeVilbiss Products in the United Kingdom

CVS-57

SPECIAL BONUS OFFER FOR FEBRUARY ONLY

With all orders received during
February value £2, we offer TWO
1/3d. "Kof-Oh," free with every
dozen ordered, 250 Handbills,
Showcards 20" x 8" and Hand
Cut-out Display Stand.
Carriage Paid. Packages Free.

Order direct or through your wholesaler

"KOF-OH" BRAND COUGH CURE

The Modern Remedy for Coughs,
Colds, Bronchitis and Chest and Lung
Complaints. Does not contain
Opium, Morphia or other dangerous
drugs. Nationally advertised. Sure
"repeaters." You can safely recom-
mend "Kof-Oh" to your customers.

1/3 3/-

KOF-OH CO., LTD.

Manufacturing Chemists, Everton, Liverpool

DeVilbiss ATOMIZERS

The name DeVILBISS stands for all that is best in Atomizers. DeVILBISS means reliability, sound workmanship, long life and correct design gained by more than 42 years' experience in the manufacture of Atomizers to meet every requirement of the medical profession.

Bleached
White
B.P.

BEESWAX

Refined
Yellow
B.P.

POTH, HILLE & CO., LTD.

6 Lloyd's Avenue, London, E.C.3.

Works at Stratford, E.

GALLOWAY'S COUGH SYRUP

*SHOWS NEARLY 50% PROFIT
WHEN BOUGHT ON BEST TERMS*

A £5 ORDER

ENTITLES YOU TO

10% DISCOUNT and 2½% for Prompt Cash

1/3 SIZE 12/- PER DOZ.

2/6 , 24/- , , ,

CARRIAGE AND PACKING FREE IN UNITED KINGDOM

FAMILY LUNG SYRUP

Special Offer for £5 Parcel

6½d. size - - - 4/9 per doz.

1/- , - - - 9/- , ,

1/6 , - - - 13/6 , ,

5% DISCOUNT AND 2½% FOR PROMPT CASH

**LOOK TO YOUR STOCKS AND
SEND YOUR ORDER NOW**

**P. H. GALLOWAY, LTD.
LONDON, S.E.17**

INNERCLEAN

THE NEW
Intestinal Laxative

RETAIL PRICE 3/-

TRADE PRICE 27/-

Brooks & Warburton
LIMITED
232-240 VAUXHALL BRIDGE ROAD
LONDON, S.W.1

Paraffinum Liquidum

B.P.
ALL GRADES
SAMPLES & PRICES

On application to —

STERNS LTD
16 FINSBURY SQUARE LONDON E.C.2

Telephone : National 7644 (7 lines).
Telegrams : "Centumvir, Phone,
London." **WHOLESALE ONLY**

THEY'LL SEE IT IN THE DAILY MAIL!

Tamar Indien Grillon, the fruit laxative lozenge, is being advertised in the *Daily Mail* during the coming months. "From all good chemists" the advertisements say. Does this include you? Any product which is brought to the public's notice through the medium of a national daily newspaper is bound to be asked for frequently. Now is the profitable time to stock Tamar Indien Grillon, and to display it so as to link up with the advertising.

All enquiries to : GUYOT, GUENIN, & SON (DEPT. CD), 67 SOUTHWARK BRIDGE ROAD, LONDON, S.E.1

TAMAR INDIEN GRILLON

The Astounding "Repeat" Business of HERBARAS

FACTS THAT WILL INTEREST YOU

stimulated by our educational advertising has exceeded expectations • The business has increased by 823% ! • The Herbaras treatment is the emollient action of seeds of a selected plantago type • It is being increasingly prescribed and recommended by the Medical and Nursing professions • THE GOODWILL OF EVERY LOCAL ORDER IS HANDED OVER TO THE LOCAL CHEMIST.

P.A.T.A.
TERMS

1/9 (1 lb. packet)	- - -	15/9 per doz.
3/- (1/2 lb. "	- - -	27/- "
5/- (1 lb. "	- - -	45/- "
9/6 (2 lb. "	- - -	85/6 "

There is a growing demand among critical people for a natural treatment for constipation • This demand

• In 3 months only, Trade "Repeat" Counter or Window Display Terms on application.

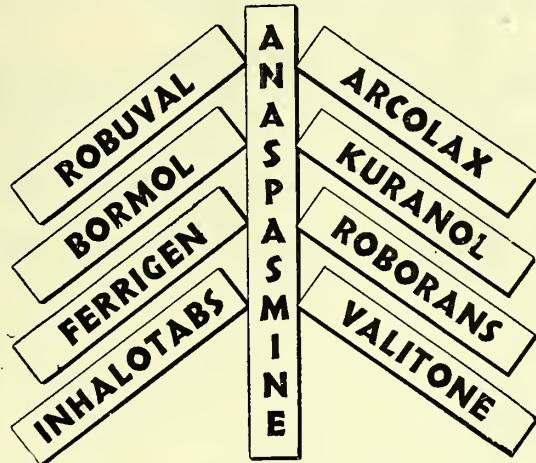
All orders over £1 NETT sent Carriage Paid.

JOHN W. LONGMAN LTD.

Overseas Produce
Merchants & Importers

C.D. CLYDE HOUSE,
489a Oxford Street,
LONDON, W.1.

PRESCRIBED LINES



Manufactured and Advertised
to the Medical Profession by

ROBERTS and CO.

Pharmacien to H.M. The King

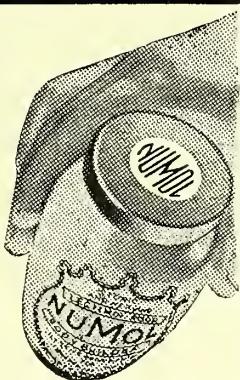
76 New Bond Street, London, W.1

and at Paris

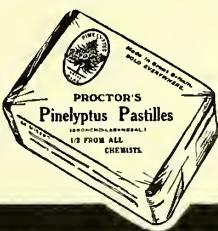
'Phone: Mayfair 4173

'Grams: Parilond, London

**CHEMISTS who
are interested
in the sale of
NUMOL
or Proctor's
PINELYPTUS
PASTILLES**



are invited to write for a rubber floor mat
and also particulars of an interesting
sales scheme.



NUMOL LIMITED,
Newcastle-on-Tyne

YOU CAN BANK ON 'GRIPS'!



You can bank money on GRIPS. They give you a steady cash profit all winter. GRIPS have become a habit with millions and their popularity is growing every year.

Display GRIPS—it will pay you handsomely. They take up little room and repeat regularly.

Sales have exceeded all previous records this winter and the worst weather is yet to come. Stock up and let your customers see them. You'll be surprised how quickly they move.

Agents to the Wholesale & Retail Chemists' Trade :
THOS. CHRISTY & CO.,
4-12 Old Swan Lane, London, E.C.4

'GRIPS' FIRST-AID PASTILLES

Made by J. W. Lightbown & Sons, Ltd., Accrington



CHEMISTS who display ADVERTISED goods participate in £30,000,000 worth of ready-made SALES every year



This Illustration is typical of the excellent eye-arresting Window Displays which 'ASPRO' publish at frequent intervals.

These Window Sets are printed in full colour—and are sent to Chemists FREE

Changing times are here—changing values. The centre of gravity of business is removing to active centres. Let us illustrate this from the chemist's standpoint—his business—his sales. Many chemists fail to realise that in their section of advertised lines over £3,000,000 is being spent annually. If it takes 10% average advertising to sell and make known an article to the public this means that the proprietary and general advertising of chemists' lines is selling £30,000,000 worth of goods a year. **THE CHEMIST WHO GETS THIS BUSINESS IS THE MAN WHO SHOWS WINDOW DISPLAYS OF ADVERTISED GOODS IN HIS WINDOWS ALL THE TIME.** He connects up with

Agents :

GOLLIN & CO. PTY. LTD.
('Aspro' Dept.), SLOUGH, Bucks.

Telephone: SLOUGH 608

its stupendous active sales-producing activity. If he fails to show in his windows literature of advertised lines his potential customers and sales are **DIRECTED INTO OTHER CHANNELS.** You can easily prove this for yourself with 'ASPRO'. **WHEN YOU SHOW AN 'ASPRO' WINDOW DISPLAY, YOU DEFINITELY CONNECT UP WITH ONE OF THE LARGEST ADVERTISING CAMPAIGNS IN THE KINGDOM.** You attract customers into your shop not only for 'ASPRO' but for a hundred and one other things which you stock. Why not prove this to-day for your own satisfaction? Why not bring the customers into your shop? **USE 'ASPRO' advertising to do it.**

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LTD., Slough, ENGLAND

No proprietary right is claimed in the method of manufacture or the formula.



Whiffen's

IODIDES

POTASSIUM

SODIUM

IODINE RESUB.

IODOFORM

ALL PRICES REDUCED FROM JAN 1ST

We recommend buyers to enquire
of us before placing their orders

TELEGRAMS: "WHIFFEN, LONDON" • WHIFFEN & SONS, LTD.
TELEPHONE: FULHAM 0037 (3 lines) • ALDERSGATE CHEMICAL WORKS, FULHAM, LONDON, S.W.6

INCORPORATING GEO. ATKINSON
& COMPANY ESTABLISHED 1654

OPENING A PHARMACY

From London
11.1.34

I thank you for dispatching my order so promptly. One consignment arrived a day late, but that was the fault of the railway company. All the goods were received in good condition and I am very pleased with the various packed lines.

From Worcestershire
10.1.34

I should like to take this opportunity of expressing my entire satisfaction with your handling of my opening order. I am extremely pleased with the appearance of the goods, especially the "Purple Key" pack.

I appreciate the great help that Mr. Black has given me and the helpful atmosphere at Hanover Street when we came to Liverpool.

Hoping that this may only be the beginning of a mutually profitable business association.

Get AYRTON'S PUBLICATION

"A New Pharmacy"

AYRTON, SAUNDERS & CO., LTD.
34 Hanover Street, 44-46 North Lotts,
LIVERPOOL, DUBLIN

To Wholesale and Export Trades SOLID & LIQUID EXTRACTS

Green Extracts .
Expressed Juices .
Essential Oils .
Belladonna & .
Henbane Preps. .

MEDICINAL SPIRITS

IN BOND FOR EXPORT

WILLIAM RANSOM & SON LTD.

Manufacturing Chemists
HITCHIN, Near LONDON

MALTED FOODS

Special Foods Devised
"Own Name" Formulae
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 20, 1934

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL, PREMISES TO LET** and **FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

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EXCHANGE COLUMN (for Retailers, etc.)—**Twopence** per word, minimum 2/-. (Box No., 1/- extra.)

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2
Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Strand, London."

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All advertisements intended for insertion in this Supplement

ORRIDGE & CO.

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—WEST LONDON.—General Retail Business with Kodak Agency and N.H.I. (about £250 yearly); well established; returns last year £1,730, with gross profit about 38 per cent.; accountant's figures; scope for increase; double-fronted shop well fitted and stocked; rent £80; held on lease; valuation terms entertained.

2.—FOR IMMEDIATE DISPOSAL, at sacrifice price, Middle and Working-class Business in S.E. London, returning at present approximately £1,200 per annum; attractive shop occupying good position in main road; stock and fixtures worth about £575; rent covered by sublet; scope under energetic management; offers invited.

3.—ACTON (NEAR).—Middle-class Family Retail Business with N.H.I. and Wine Licence; returns last year £1,233 with gross profit £564; Chartered Accountant's figures; double-fronted shop; good living accommodation; rent £75; lease 1½ years unexpired; price £800 or valuation terms entertained; vendor retiring.

4.—LONDON, S.E.—Medium and Working-class Business; returns 1933 £925 plus N.H.I. about £132; estimated net profit £289; stock and fixtures worth £400; rent £45; sublet £65; held on lease; price about £650, or reasonable offer.

5.—LONDON, E.—Middle and Working-class Business with Kodak and Ucal Agencies; large Panel; established 80 years; returns last year £873 plus N.H.I. £281; single-fronted shop; stock and fixtures estimated at £450; 4-roomed house with stock room and cellar; rent £52; held on lease; price £300, plus valuation of stock and fixtures; Vendor purchased another business.

6.—PICCADILLY.—High-class Chemist's and Photographic Business; increasing turnover; at present conducted under management; situate in busy thoroughfare; rent £350; held on lease; price £500 or valuation terms entertained.

7.—EALING (NEAR).—Cash Drug Store returning at present approximately £25 weekly; old-established; stock and fixtures worth about £450; living accommodation; private entrance; rent £100; 13 years' lease; good opportunity for the right man; a reasonable offer based on the value of stock and fixtures, plus an equitable sum for goodwill, will be accepted.

8.—LONDON, N.W.—Cash Retail Business occupying good position in main road; returns average £2,500 per annum under management;

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone No.: CITY 2283

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

low rent; 12 years' lease; stock and fixtures worth £1,200; lump sum offer or valuation terms will be entertained.

9.—ASCOT (NEAR).—High-class Retail and Dispensing Business with increasing turnover, this year being about £1,600, with net profit about £400; spacious shop; exceptionally good house; 19 years' lease; situate in charming surroundings; in close proximity to golf course, etc.; no further opposition possible; developing district; price to be arranged.

10.—WORCESTERSHIRE.—Middle-class Retail Business with Kodak and Ucal Agencies; established 60 years; Vendor retiring from Pharmacy; returns 1933 £1,708; gross profit £846; net profit £555; main-road shop; stock and fixtures worth £800; price £300, plus value of stock and fixtures.

11.—NORFOLK.—Light Retail Business with N.H.I.; large Photographic; returns 1933 £1,336; net profit £322; main-road position; living accommodation; rent £66; new lease; scope for increase; price £900, or £300 and valuation; Vendor's illness sole reason for sale.

12.—CORNWALL.—Good Middle-class Retail Business with small Optical connection; returns 1933 about £2,380, increasing; gross profit 40 per cent.; large single-fronted shop occupying excellent position; rent £130; sublet £36; stock worth £900; further details on application.

13.—KENT COAST.—Cash Drug Store with good profitable proprietary lines; returns last year £1,108; net profit £283; attractive shop; stock and fixtures worth £430; good living accommodation; private entrance; rent £65 inclusive of rates; property may be purchased if desired; terms, valuation of stock and fixtures and agreed sum for goodwill, or reasonable lump sum offer.

14.—SUSSEX.—Drug Store for immediate disposal on account of death of proprietor; established 40 years; at present neglected; comfortable house; rent £35; good garden; price for quick sale £200.

15.—SUSSEX.—High-class Dispensing Business; very old-established; in present hands many years; returns last year £3,250; net profit approximately £750 per annum; double-fronted shop, handsomely fitted and well stocked; long lease; price asked £3,250; further details on receipt of Bankers' reference.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

Chemists Valuers & Transfer Agents.

Bank Chambers, 329 High Holborn, London, W.C.1.
Telephone Nos. Holborn 1167 & 1278, (2 lines).
Tudor House, Walsall, Telephone, Walsall, 3774.

(Cr) NORTH WALES.—High-class dispensing and general retail business, situated in congenial seaside resort; turnover for 1932-33 financial year upwards of £3,000; exceptionally attractive and well-fitted lock-up pharmacy; purchase price to comprise approximately £750 for goodwill, plus the value of stock and fixtures, but the stock is heavy and the fittings elaborate; further details to *bona fide* potential purchasers upon receipt of satisfactory references.

(Cz) SURREY.—Unopposed country pharmacy, situated amid charming surroundings; turnover for 1932-33 financial year £1,250, with net profit £320 (approximately); reasonable rental, which includes good living accommodation; price £900, including stock and fixtures estimated at £650; visited and recommended.

(C3) WHITSTABLE (NEAR).—Attractive Pharmacy situated in pleasant seaside resort; turnover approximately £1,550 per annum; rent, including living accommodation, £100, which can be more than covered by sub-lets if desired; no near opposition; visited, and recommended as genuine.

(C4) BERKSHIRE.—Attractive modern Pharmacy with labour-saving flat above, situated in very congenial residential area; present returns £35-£40 weekly, and steadily increasing; reasonable rental; no near opposition; this business is very well known to us, and is recommended with every confidence.

(C5) SUSSEX (DEATH VACANCY).—Village drug store, for many years carried on by a qualified chemist, can be purchased for an all-in figure of £220 or near offer; very pleasant surroundings, and excellent scope, as the village is without a chemist at the moment; rent £35 per annum, including living accommodation with three bedrooms, and good garden.

(C6) DULWICH.—Excellent opportunity for Chemist with limited capital, to acquire a business at present showing a reasonable living, with good prospects for further development, at a relatively low figure; turnover for 1932-33, £944, with net profit £256; lock-up shop; part of the purchase money could probably remain if necessary.

(C7) LONDON, EAST.—Old-established lock-up pharmacy, with good N.H.I., and excellent prospects for further development, can be acquired at a "bargain" figure for a quick transaction; present turnover approximately £1,200 per annum; low rental; part of purchase money

might remain over for a period if desired; price all-in about £550 (offers considered); short trial could be arranged if necessary.

(C8) SURREY.—Pharmacy, with up-to-date living accommodation, including bathroom and garage, situated in congenial residential district; present returns approximately £2,000 per annum; gross profit about £750; rent £150; lease 20 years unexpired; no near opposition; price £1,200, or near offer; visited and well recommended.

(C9) BRIGHTON.—Attractive pharmacy with small house above, situated on main road of prominent residential district; average returns approximately £20 weekly, with scope for increase, which should be apparent upon inspection; rent £90; lease 17 years unexpired; price about £800.

(Cr) LONDON (OUTER WESTERN SUBURB).—Modern pharmacy with six-roomed flat above, situated in good-class rapidly growing residential district; present returns upwards of £30 weekly, and increasing; scope for considerable further development; rent £150 per annum; price by negotiation.

(Cr1) BIRMINGHAM.—Offers are invited for the purchase of two businesses in different areas, which are available separately; the present turnover in each case exceeds £20 per week, with apparent prospects for considerable improvement; reasonable overheads; living accommodation in both instances; valuation terms accepted, without any payment for goodwill, and early investigation is advised.

(Cr2) LONDON, N.W.—Pharmacy with living accommodation, prominently situated in thickly populated middle working-class district; turnover for last financial year approximately £1,000, with plenty of scope for further increase; less than £400 will purchase; full details upon application.

(Cr3) GLOUCESTERSHIRE.—Small country business, unopposed, with excellent drawing possibilities; present returns approximately £18 per week, and increasing; owner selling owing to age and retirement; price about £300 all-in, or value of stock and fixtures only.

(Cr4) CHESHIRE.—Old-established unopposed pharmacy, with good old-fashioned house, situated in pleasant country village; present returns £17-£18 weekly, and increasing steadily; rent and rates about £64 per annum; £50 is asked for goodwill, plus the value of stock and fixtures (total about £650).

BERDOE & FISH CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—MIDLANDS.—Light Family Retail with N.H.I., in thickly populated district; no near opposition; returns last year £1,321; rent £52; on lease; corner shop, well stocked; owner ordered South; price £800 or £200 plus valuation.

2.—LINCS.—Old-established Retail, neglected through ill-health; no Photographic; plenty of scope for increase; good house and garden; own freehold; price, with freehold, £1,300, £400 mortgage transferable; no reasonable offer refused.

3.—GLOS.—Unopposed village business, with Kodak Agency; returns £900 under elderly proprietor, now retiring; rent £34; 6-roomed house; electric and gas; garden, etc.; price £320.

4.—SUSSEX (near Coast).—Good-class Family Retail; in small town; returns £1,450; net profit £340; scope for increase; rent £65 on lease; well-fitted pharmacy; fully stocked; price £800.

5.—NOTTS.—Light Family Retail, in main-road position; returns £750; net profit £200; rent only £52; large shop, with house attached; stock worth £250; price £400.

6.—HULL.—Light Cash Retail; no N.H.I. or Photo; scope for both; returns average £1,000; net profit about £300; low rent; good house; stock worth about £300; owner retiring; price about £600.

7.—PADDINGTON (near).—Middle-class Cash Retail with large Panel and good Photo connection; returns approx. £2,200; gross profits over 45 per cent.; books audited; main-road position; rent £150; long lease; large house; price £1,500 or offer.

8.—LONDON, N.W.—Old-established General Cash Retail, with large Panel; busy main-road position; returns average £2,500, under management; scope for increase; rent £110, including living accommodation; price £2,000.

9.—SOUTH LONDON.—Very profitable light Retail, in main road; returns about £1,300; neglected; scope for increase; rent £90, sublet £80; corner shop; stock worth £400; offers invited.

10.—LONDON, E. (busy main road).—Profitable Cash Retail and Prescribing; has been neglected; present returns £20 weekly, plus 5,000 Panel scripts yearly; low rent; on lease; good stock; price £650; this business offers exceptional scope; trial allowed.

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THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

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S. F. CLARK, F.N.A.A. 'Phone: CHEMISTS' VALUER & TRANSFER AGENT 34 Marksbury Avenue, Richmond, Surrey

Has a number of businesses—all parts of London, also provincial—offering scope, with turnovers ranging £1,000 to £2,500, and invites correspondence from prospective purchasers.

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BIRMINGHAM (SUBURB).—In thickly populated working-class district; nearest opposition about mile; compact, profitable little business; unlimited scope for N.H.I.; good living accommodation; rent £52, inclusive; N.H.I. scrips 2,000 per year; returns £600; could be easily doubled; proprietor unable to give proper attention through illness; accept valuation of stock and fixtures, about £300. 576/32, Office of this Paper.

BRADFORD.—Old-established Chemist's Business, in thickly populated district of Manningham; main road, good frontage; newly decorated inside and out; good stock; full wine licence; improving N.H.I. Panel; easily worked and comfortable living at present turnover, capable of vast improvement under owner manager. Immediate cash buyers apply, Smallwood, Chemists, Pudsey.

DONCASTER (9½ miles from).—Two Retail Family Dispensing Businesses, situate in rapidly developing mining area; one only recently established; good Photographic connection and excellent opening for Optics; returns last year, prior to opening branch business, which was acquired this year, £2,600; good stock carried; premises, which are excellently situated, held at very moderate rental; great scope for energetic man; reasonable price for quick sale. Fullest particulars, apply Parkin S. Booth, 2 Bixteth Street, Liverpool, or of W. G. Dickinson, Lancaster House, Doncaster.

ESSEX.—Drug Stores; nicely fitted, with P.O. attached; good growing working-class district; no opposition within 20 minutes; splendid scope for N.H.I.; Qualified supervision needed; good reason for disposal; low figure for quick sale; modern house, all conveniences, long garden; no agents. 577/37, Office of this Paper.

GLoucestershire.—Large town, central situation, good-class Retail, Dispensing and Photographic; returns 1933, £1,950; gross profit above average; heavily stocked; price about £1,800; banker's references required. 576/10, Office of this Paper.

HARROGATE.—Old-established Chemist's Business; Kodak Agency; Wine, Spirit and Cider licence; opportunity for smart man; lock-up shop with two stock rooms; clean saleable stock about £300 and fixtures £100; must be sold; what offers? Charles C. Marsden, Chemists' Valuer, 29 Oakwell Crescent, Leeds, 8.

KENT.—Seaside Business and Premises; all at £3,000 or near offer; not a Toy and Fancy Goods Shop; good Dispensing, Popular Proprietaries; Kodak; opportunity for Optics; corner position; modern building; steady winter trade; particulars or interview only to principals with sound references; owner retiring on account of age. 575/12, Office of this Paper.

LEEDS.—Old-established Business in industrial area; fair good stock and a living; scope for increase under good management; Unqualified could work as a Drug Store. 578/9, Office of this Paper.

LIVERPOOL.—City Chemist's Business: sound and congenial; low rental; lease; very profitable; no Sunday duty; returns approx. £1,600 per annum; considerable increase can be made; quick transfer desired; price £850. 577/23, Office of this Paper.

LIVERPOOL.—For Disposal, sound Business; doing over £30 per week at good profits; lock-up shop; short hours, no Sunday opening; excellent reasons for selling; accountant's figures and every investigation; price reasonable. For particulars apply 796, c/o John Thompson, Ltd., 27 Duke Street, Liverpool.

LIVERPOOL.—Suburb, thickly populated working-class district; average £14 weekly; N.H.I. 175 monthly; good prescribing; net profit 40 per cent; very small overheads; rent and rates only 8s. 6d. per week; house well sited; owner buying larger business; sensibly stocked and well fitted; £325 for quick sale. 573/9, Office of this Paper.

MERSEYSIDE.—Busy shopping centre; Old-established Business; many own preparations; fine chance for young, energetic man; rent £150; rates £54. Further details 574/19, Office of this Paper.

MIDLANDS.—Old-established Family Dispensing Business, industrial area; lock-up shop; held on lease; low overhead charges; easily worked; part could be let off; average turnover £1,350; N.H.I. £150; stock and fixtures at valuation; goodwill to be agreed. 573/24, Office of this Paper.

MIDLANDS.—Retail Chemist's Business for sale; situated in main thoroughfare near centre of town (100,000 population); smart double-fronted lock-up shop; sales for 7½ months to December 31, 1933, over £930; increasing N.H.I.; stock, fittings and goodwill about £650. 577/38, Office of this Paper.

NORTH LONDON.—Thickly populated working-class district; old-established, well stocked and fitted Pharmacy, at present under management; large house and garage, partially sited, nearly covering rent; takings low but capable of large increase under personal supervision; suit Qualified or Unqualified; long lease; price £250, s.a.v. 577/28, Office of this Paper.

NOTTS.—Old-established Family Business; market-place thoroughfare; good Optical connection; valuable Proprietary Lines; living accommodation could be arranged; excellent scope for development by live proprietor; reasonable price, by negotiation. Apply Chas. F. Carlisle, Messrs. D. W. H. Phipp & Co., 15 Park Row, Nottingham.

NOTTS.—Very Old-established Retail Dispensing Business for immediate disposal; well situate double-fronted shop, with Optical Rooms above; also good stock rooms; up-to-date conveniences; present rent £200 per annum; lease could be arranged; turnover average for past 3 years £1,866; stock approximately £600-£700. For full particulars apply 234/425, Office of this Paper.

N.W. LONDON.—Main-road Chemist-Optician; good class Cash Retail; well-fitted modern Pharmacy; also splendid living accommodation; turnover for last year £2,300, audited figures; genuine reason for disposal, can be verified; further particulars to genuine prospective purchasers upon application. 575/35, Office of this Paper.

SOUTH COAST.—Good-class Dispensing Business; large double-fronted shop, newly fitted; good stock; private scrips (1933) 2,149; rent £75; lock-up shop; price £1,150; value stock and fixtures £700. 577/18, Office of this Paper.

SOUTHPORT.—Modern Pharmacy, lock-up, main road; returns £1,000 p.a. approx., can easily be increased under progressive proprietor or manager; middle to good-class business; good prices; no heavy trade; N.H.I. 50 to 100 monthly; rent £60 p.a.; rates £19; modern and up-to-date stock; Kodak Agency and D. & P.; owner going South; particulars to genuine applicants. 574/4, Office of this Paper.

SOUTH WALES (Industrial).—Old-established lock-up General Retail, Med. Wine, N.H.I., Photo., &c.; returns over £2,000; net profit £500; good opening for Optics; new lease will be granted; present rent £70, rates £24; price £850 or £100 plus stock and fixtures, valuation; health reasons; no triflers. Citron, 576/16, Office of this Paper.

THAMES-SIDE Town, near London: branch Pharmacy under management; over 50 years established; main road; ample living accommodation; part could be let off; turnover £1,600 yearly; positive scope for increase; rent £150; no near opposition; price £1,150, all in; good summer trade; Kodak agency. 577/7, Office of this Paper.

WALTHAMSTOW.—£700 Freehold Drug Store; shop, 5 rooms; front, side and back entrance, garden; recently decorated, excellent repair; suitable for Qualified man; at present under unqualified management; illness cause of disposal; s.a.v. Full particulars on application to P.C.B. 104/6, Office of this Paper.

WEST OF ENGLAND.—Near coast, for reasons of health; good middle-class Cash Retail Business; turnover last 3 years £2,200; qualified accountants' audits; net profits about £500; double-fronted shop; main thoroughfare; good living accommodation; property, freehold, must be purchased; existing mortgage can be taken over; no agents, no triflers; references exchanged. 576/15, Office of this Paper.

WEST RIDING.—Country Business; nearest opposition 3½ miles; large double-fronted wooden premises; established 9 years; returns £1,500, including 400 scripts monthly; easily-worked weekly delivery round, with plenty of scope for increase; price £150 for freehold and fixtures; stock at valuation, about £250. 578/3, Office of this Paper.

YORKSHIRE CITY.—Drug Store, situated on a main road in a thickly-populated district; lock-up shop; rent and rates £1 per week; good scope for N.H.I. and Photography; £200, approximate value of stock and fixtures; nearest offer will be accepted; must be sold. 574/21, Office of this Paper.

ATTRACTIVE Business, London, S.W.; steadily growing under management; turnover exceeded £2,000 in 1933; Family trade with popular Proprietaries; good opening for Prescriber; living accommodation in pleasant locality; long lease; advertiser has other interests; terms: stock and fixtures at independent valuation; goodwill by easy instalments; no agents. 577/13, Office of this Paper.

DRUG STORE.—Country, main road; healthy, rapidly growing locality in Suffolk; easy going; small takings; good shop and living accommodation; low rent; no opposition. 569/37, Office of this Paper.

OLD-ESTABLISHED Business for sale through illness; on main road in Walthamstow district; gross profit about £400; price asked £750, or valuation of stock and fixtures and goodwill; rent £80, or freehold can be purchased; good prospect for young, energetic man. Write 234/424, Office of this Paper.

OLD-ESTABLISHED Retail Herbalist, Chemist and Druggist in very busy main thoroughfare in N.W. London district; lease 13½ years; open to fullest investigation; very profitable concern; price £2,500 includes stock, fixtures, &c. Pawley & Malyon, Incorporated Accountants, Finsbury Court, Finsbury Pavement, E.C.2.

OPPORTUNITY presents itself for gradually acquiring Old-established Chemist and Optician's Business in prosperous Midland town; references required; both qualifications essential; no triflers. 575/21, Office of this Paper.

OWING to unforeseen circumstances owner must sell old-established Pharmacy main London thoroughfare; first reasonable offer accepted. P.C.B. 104/3, Office of this Paper.

PHARMACIST in residential district of S.E. London (established 30 years), retiring, seeks genuine buyer; turnover approximately £2,500; certified figures; excellent position in main thoroughfare; good prices obtaining; fullest details to applicants, giving banker's reference. 234/422, Office of this Paper.

SACRIFICE.—Chemist's Business, Brighton; in busy main thoroughfare; owner compelled to leave district; price, stock and fixtures at valuation, about £350; nothing asked for goodwill; reasonable rent; turnover £1,500 per annum approximately. For further details please apply to ERNEST J. GEORGE & CO., 329 High Holborn, London, W.C.1.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

MANCHESTER.—Private Chemist desires purchase sound concern taking £1,500 or more per annum. Property will be purchased if necessary. 573/90, Office of this Paper.

AT the moment I have an unusual demand for Really Sound and Genuine Businesses, preferably with living accommodation (but not essential); must show good returns and stand investigation. I have a clientele second to none with cash at command and ready to act at once. The opportunity is unique to effect a quick sale, and if you contemplate disposing of your business, either now or in the near future, you would be well advised to get in touch with me. "Your interests are mine." Expert service; personal attention. BRIERLEY, Chemists' Valuer and Transfer Specialist, 135 Queen Street, Newton Heath, Manchester. (Tel.: Falsworth 1913.)

BERDOE & FISH have several private clients seeking sound businesses showing a turnover of £4,000 a year upwards in London or Southern Counties, or Coast; intending vendors are cordially invited to correspond; strictest confidence guaranteed. Address, 41 Argyle Square, King's Cross, London, W.C.1.

BUSINESS Required with modern house and garden, turnover not under £2,000 per annum; seaside preferred. Wade, 58 Bradenell Road, Leeds, 6.

ERNEST J. GEORGE & CO., 329 High Holborn, London, W.C.1, are specifically instructed to obtain on behalf of a private client a business conforming to the following requirements: preferably situated in the North, but any area considered; turnover not less than £3,000 per annum, with proportionate overhead expenses; inland market town preferred; vendors open to negotiate are invited to communicate under guaranteed assurance of confidence; capital available up to at least £8,000.

PREMISES TO LET.

BLACKPOOL.—Double-fronted Shop, with good house; part now empty; 6 years Chemist; in thickly-populated district for residents and visitors; main shopping street; good scope for side lines. Owner, 189 Church Street, Blackpool.

IPSWICH (Near).—Chemist Shop to let; fittings; living accommodation; £60 and rates. Bloomfield & Jobling, Auctioneers, Ipswich.

LITTLEHAMPTON, SUSSEX.—New double-fronted shop and dwelling-house in this favoured health resort, house fitted all modern conveniences; rapidly developing district; no competition; doctor next door; rent £100 p.a. Apply Percival Cooper, Ltd., Estate Agents, 3 Pier Road, Littlehampton.

ROMFORD.—Splendid opening for Chemist and Druggist; new corner parade of shops; living accommodation optional; 50 yards from stations; several let to multiple stores; letting office on site, 9 a.m. to 6 p.m.; full details. Kemsleys, 19 South Street, Romford, Essex.

LARGE Double-fronted Shop to let in main street of busy Coast town near Bournemouth; excellent position for Chemists and for Photographic Supplies; shopping centre of large population; rent £120 per annum, inclusive. Further particulars from Primmers, Business Transfer Agents, 9 Queen's Road, Bournemouth, W.

S HOPS to be Let, suitable for Chemists, on new estates, Eltham, Ilford, Watford. Montagu Holmes & Sons, 4 St. Paul's Church Yard, E.C.4.

APARTMENTS.

WHEN YOU COME TO LONDON STAY AT THE HAMPDEN RESIDENTIAL CLUB.

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 bedrooms. 12s. 6d. to 25s. per week, including baths, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary, Euston 2244/5.

AGENCIES.

POLAND.—Experienced Business Man, now in London, seeks Agencies for Pharmaceutical Goods, Chemicals, and Oils and Fats for technical purposes from capable firms; manufacturers only. Write E. L. W. 4018, c/o Tudor Advertising Services, Ltd., Brettenham House, W.C.2.

A CORNISH Manufacturing Company requires contact with Distributing or Wholesale House; sole agency basis; entirely new attractive pack, cellophane wrapped; state full particulars, if showing at Ideal Home or B.I.F., and whether in a position to pack raw material produced; principal in London shortly. Cornish Food Products, Ltd., Penzance.

A GENTS wanted in United Kingdom and Northern Ireland for an attractive, quick-selling and repeating Chemist's Line (Proprietary); liberal commission; character and reputation must stand investigation. 234/416, Office of this Paper.

ARE YOU INTERESTED IN BELGIUM?—Advertiser, at present in this country, would like to meet British Manufacturers; marketing and packing can be undertaken. P.C.B. 103/35, Office of this Paper.

FIRST-CLASS Sales Organisation, whose Salesmen call upon all Chemists, &c., four to five times per year, are open to negotiate another Agency with big sales possibilities; the company are well known and have London office and warehouse facilities; several well-known proprietaries successfully launched by the organisation. 576/7, Office of this Paper.

WELL-KNOWN Biscuit Makers invite applications for Commission agents to sell absolutely unique food suitable for children; high-class Chemists. Give full particulars of ground covered, &c., to 234/421, Office of this Paper.

BUSINESS OPPORTUNITIES.

JOINT SELLING REPRESENTATION.—Well-known British Firm manufacturing and distributing a widely-advertised high-grade product in universal demand is desirous of getting into touch with another Firm selling an established non-competitive quality line with a view to an amalgamation of outside selling forces and the sharing of Travellers' costs on an agreed basis. Their own full-time Representatives call upon Wholesale and Retail Chemists and Hairdressers, also Stores. All replies from Firms seriously interested and selling their product in England and Wales, through the same channels, will be acknowledged and treated in strict confidence. Apply 234/430, Office of this Paper.

DIRECTORSHIP.

DIRECTORSHIP with well-established Company dealing in Toilet Articles and who are extending their products; one having experience in the manufacture and creation of Beauty Preparations to control this side of the business; moderate investment required. 576/70, Office of this Paper.

PARTNERSHIPS.

A DVERTISER would join firm of Chemists' Sundriesmen or associate, with view to extension; capital available. Replies in confidence to 575/40, Office of this Paper.

E XPERIENCED Energetic business man with £500 to £1,000 desires opening in well-established, sound, progressive manufacturing concern in London; duties, office and travelling. P.C.B. 103/28, Office of this Paper.

E XPERIENCED Qualified Lady or Gentleman, alive to modern requirements, wanted as Partner by progressive unqualified gentleman with established business in crowded working-class and medium district S.W. London; of no interest to anyone expecting comfortable living without competition, effort and outlay; about £250 wanted for expansion, &c.; full details only at interview, which is without obligation. 574/2, Office of this Paper.

M ANAGER Wanted, Retail Pharmacy, Qualified or Unqualified; must invest £250; 7 per cent. secured; share of profits. Write only to X.L., 569 Garratt Lane, Earlsfield, S.W.18.

APPOINTMENTS.

CITY OF BIRMINGHAM EDUCATION COMMITTEE.

CENTRAL TECHNICAL COLLEGE.

Principal: D. S. ANDERSON, Ph.D., B.Sc., M.I.Mech.E., M.I.A.E.

Department of Pharmacy.

APPLICATIONS are invited for the post of Lecturer A in Pharmaceutical Chemistry in the Department of Pharmacy. The position is a whole-time appointment, commencing as soon as possible. Salary in accordance with the Burnham Provincial Technical Scale (plus £48 for special responsibility), less 10 per cent. The salary will be subject to revision on the termination of the present Burnham Award. Applicants should have a University degree or equivalent qualification and have had some teaching experience. Experience on the manufacturing side of Pharmacy will be an additional qualification. Particulars of the appointment will be sent, on receipt of a stamped addressed foolscap envelope, by the Principal, Central Technical College, Suffolk Street, Birmingham 1, to whom applications on the special form provided must be returned not later than January 31, 1934.

P. D. INNES, Chief Education Officer.

APPRENTICES.

APPRENTICESHIP.—Wanted to place Gentlemanly Youth, passed Oxford School, cert. four credits, including Chemistry, in Good-class Business. Kennett, The Dene, Ropley, Hants.

CHEMIST in West End will shortly have a vacancy for an Apprentice; premium required; salary given; kindly state what educational standard has been reached; facilities will be given for the attendance of evening classes. 576/2, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

PHARMACEUTICAL CHEMIST.—The directors of the S.C.W.S., Ltd., desire to thank all those who made application for the post of Pharmaceutical Chemist, and have to intimate that an appointment has been made.

THE Leeds Industrial Co-operative Society, Ltd., begs to thank all applicants for the position of Qualified Chemist and to state that the same has now been filled.

BERDEEN.—Lady Assistant required, Unqualified; good Dispensing and Counter experience essential. Full particulars to Hunter, Chemist, Union Street.

YELLSBURY.—January 29 or near; Lady Assistant for Dispensing and Light Counter in good-class Family Business; knowledge of Photographic desirable; photo and usual particulars in first letter. T. M. Ashford, Chemist, 16 Market Square, Aylesbury.

GLoucester.—Qualified Assistant, male, wanted for busy store; quick Dispenser and efficient Salesman. Send applications, stating age, experience, salary required, where references may be obtained, and when can be disengaged, to the Gloucester Co-operative & Industrial Society, Ltd., Brunswick Road, Gloucester, envelope endorsed "Chemist Assistant." Application to be in before 6 p.m. Friday, February 2.

LIVERPOOL.—Wanted at once, experienced Qualified Branch Manager for high-class Dispensing and Family Business; all-round knowledge and experience needed, including Window-dressing, Photography, &c.; give full particulars in first letter and enclose photo if available. 576/18, Office of this Paper.

LONDON.—Young married Qualified Chemist-Optician required as Manager for Medium-class Retail; house attached; particulars of age, height, experience, salary required; photo, to be returned. 577/31, Office of this Paper.

LONDON (Eastern District).—Young Qualified Manager required for Cash Business and N.H.I. Dispensing; capable and energetic; full particulars of experience, references and salary required. B. R., 575/15, Office of this Paper.

LONDON, N.W.—Smart, experienced Unqualified Assistant for high-class business; good Window-dresser and Salesman; state full details, age, experience, salary required, &c.; applications not answered 7 days declined; letters only first instance. 147 Park Road, St. John's Wood, N.W.8.

SOUTH KENSINGTON.—Assistance on two evenings or one half-day a week for simple bookkeeping and monthly accounts; 1s. 6d. an hour; state age and experience. 574/8, Office of this Paper.

SUSSEX COAST.—Wanted, smart Young Lady Assistant for Counter, Window, Stock and Dispensing; must be quiet, obliging and accurate and used to good-class business; please state age, height, salary, enclosing photo if possible. 576/22, Office of this Paper.

WARWICKSHIRE.—Required shortly, Unqualified Assistant (male or female), age 23-30, as Window-dresser, occasional Counter and Dispensing; good modern Window-dressing experience essential. State height, when disengaged, salary required, whether married, forward copies references, photograph (returnable) to L. H. Lester, Rexall Pharmacy, Nuneaton.

YORKSHIRE SPA.—Qualified Assistant for March; married; experienced in high-class Counter and Dispensing; good flat and electric light provided; state in first letter age, height, when and duration of each post held, and salary required; enclose recent photograph. 234/417, Office of this Paper.

A SMART Young Lady, Unqualified, required for Drug Store; good experience and reference essential; state age and salary required (outdoors); applications not answered in 7 days respectfully declined. Skilton, 62 Portland Road, South Norwood, S.E.25.

ASSISTANT Dispenser (male), fully Qualified, required from March 1, 1934; commencing salary £150 per annum. Applications, stating age, qualifications and experience, together with copies of three testimonials, should be sent to the Secretary-Superintendent, King Edward Memorial Hospital, Ealing, not later than January 27, 1934. Candidate appointed required to join Superannuation Scheme.

ASSISTANT wanted; single; capable Dispenser, good Window-dresser and Salesman; knowledge of Photography and Optics preferred; must furnish good references; state age, experience, salary required, enclose photo; last assistant with us 17 years. Davies Bros., Chemists, Hannah Street, Porth, Rhondda.

BANCH Manager, M.P.S. and J.C.Q.O., wanted February 5. Particulars of age, salary required and full details of experience to Co-operative Society, 123 East Street, Sittingbourne, Kent.

BANCH Manager wanted; Qualified man; must be thoroughly capable in all branches and willing to devote his whole energies to reviving neglected business; pleasant Surrey village. 234/419, Office of this Paper.

MANAGER, Qualified, for small branch; February 12; good Salesman and Window-dresser; light Retail and Dispensing; single; must have good references. State salary and full particulars of experience, &c., to Lords, Chemists, 158 Hyde Road, Gorton, Manchester.

M.P.S. REQUIRED for South Coast town (age 30-40), of good appearance and personality; Dispensing and N.H.I.; progressive position for capable man. Write, stating experience and salary required, with references, to 577/20, Office of this Paper.

PART-TIME Relief, Qualified, very light duties, for a few hours midday, Tuesday to Fridays each week, near Finsbury Park; state salary expected. 577/4, Office of this Paper.

PHARMACIST to manage small Working-class Branch in North London; single-handed; all-round experience; age 40-50; must be strictly sober and honest; not afraid of work; salary £3 10s. per week. Apply B. Dutta, 122 Church Street, Stoke Newington.

QUALIFIED Assistant required, Lady or Gent; permanent; letters unanswered in 7 days respectfully declined. Holroyd's (Cash Chemists), Ltd., 42 High Street, Pelsall, nr. Walsall, Staffs.

QUALIFIED Lady Chemist wanted for good-class Pharmacy, Bristol; must be young, active, pleasant, good Counter-hand and able to take charge when necessary; please state details of experience, age, salary required and enclose photograph, with stamped addressed envelope, in first application. 576/11, Office of this Paper.

QUALIFIED Manager required for branch; good Dispenser, Salesman and Window-dresser; full particulars salary, &c., in first letter. Balf Bros., 166 Rochdale Road, Harpurhey, Manchester.

QUALIFIED Manager, single-handed, with a view to succession; salary and rooms over shop. 575/36, Office of this Paper.

QUALIFIED Manager (about 30), for medium-class Family Business S.W. London; genuine opportunity for man with personality and initiative; must be good Salesman and Window-dresser; salary £4, with commission and good house over shop rent free; suitable man will have chance to acquire business on easy terms later. 576/24, Office of this Paper.

QUALIFIED to manage small branch; must be of good appearance and accurate; Surrey; permanency to right man willing to work and prospect of taking an interest in business. 576/20, Office of this Paper.

QUALIFIED or Unqualified Assistant, Male (about 30); must be good Window-dresser and Salesman; only men resident in London, with real business-building ability, need apply; state height and salary required; applications not answered in 7 days respectfully declined. 234/426, Office of this Paper.

QUALIFIED Young Lady wanted immediately for three or four months; state salary required. J. Boulton, Chemist, 25 Guildhall Street, Folkestone, Kent.

SMArt Salesman and good Window-dresser required as Assistant for West-End business; must have had previous experience in this district; state full details, age, experience, salary required. P.C.B. 104/8, Office of this Paper.

TAYLORS CHEMISTS have two Vacancies for Managers in the Midlands, one with living accommodation; Salesmanship and knowledge of Display essential. Write, stating age, experience and salary required, &c., to Staff Department, Burley Hill, Leeds.

UNQUALIFIED Managing Assistant (married), to live over premises; interview any time. Fordham, Oxted, Surrey.

WANTED.—Manager for small branch; state age, height, salary required, references and if married. "North West," 574/36, Office of this Paper.

WANTED.—Retired M.P.S. as Superintendent. Write 234/427, Office of this Paper.

WHOLESALE.

CAPABLE Salesman, part time, required by progressive house of popular range of Beauty Aids (Proprietary); Chemist, Hair-dressers, Stores connection essential; part expenses and commission. Write fully, giving particulars of present lines carried, Box T.201, c/o Knights, 55 Chancery Lane, W.C.2.

DRUG Hand, wet and dry, quick, accurate, for London Wholesale; state age, experience and wages required. P.C.B. 104/4, Office of this Paper.

REPRESENTATIVE required by London Sundries House; must have established Chemists' connection in Oxford, Bucks and Beds; already carrying another line preferred; must pass Guarantee Society. 234/418, Office of this Paper.

REPRESENTATIVE Required, with first-class connection among Wholesale Druggists' Sundriesmen, to carry Cosmetics, &c. Write, stating experience, to Box U.863, Willings, 133 Moorgate, E.C.2.

REPRESENTATIVES required for Great Britain and Ireland, with proved connection, calling upon Chemists and/or Hair-dressers; to carry as an extra line new Patented Tooth Brush with unique selling points; is already good seller with leading Stores, &c.; commission basis. 234/413, Office of this Paper.

TABLET-MAKER (young) required shortly for Chemical Works in seaside resort South Wales; must have had experience of coloured coatings. Write, stating age, experience, salary required and copy references, to BM/PPTK, London, W.C.1.

THE Opportunity occurs for a Young Man to join a London Distributive House with a view to eventual management of its Distribution and Sales Organisation. Applicants are requested to send particulars of education, qualifications, experience and age to 234/415, Office of this Paper.

WE Want a Sales Manager who can produce sales quickly; we have a splendid range of face value selling Sundries, and are ready to support you with good advertising; if you are willing to work hard and get others to work with you to produce results, send us your full record with photo (which will be returned), and state commencing salary expected; you must have an intimate knowledge of the Chemists' and Hairdressers' trade and be ready to start at once. Reply 234/428, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—M.P.S. requires post in busy high-class Pharmacy; 8 years' experience; now in West End. "Pharmacist," 24 Hill Crescent, Surbiton.

A.A.A.A.—Qualified, married (29) requires permanency; excellent all-round experience; undeniable references; used to heavy N.H.I.; London only. "Chemist," 121 Northfield Avenue, W.13. 'Phone: Ealing 2608.

A.A.A.—ASSISTANT, experienced all branches; tall; splendid. Wotton-under-Edge.

A.A.A.—COMPETENT M.P.S. (36); married; disengaged; 6 years' management last position; experienced all branches; highest references; moderate salary. Grgis, 213 North End Road, West Kensington, W.14.

A.A.A.—QUALIFIED (28) seeks permanency; Hospital and Retail experience, Buying, Counter and Photographic; disengaged. E. J. Jones, 54 Leinster Square, Hyde Park, W.2.

A.A.A.—QUALIFIED (24; 5 ft. 11 ins.) as Manager or Assistant; experienced in all branches; capable Dispenser, Photographer and Window-dresser; City experience; highest references; disengaged. J. Simmons, 60 Pennard Road, Shepherd's Bush, W.12.

A.A.—ASSISTANT or Improver (20), passed Part I, 3½ years' experience, seeks situation in good-class Pharmacy, Hampshire district preferred. Guy, 31 Newlands Avenue, Shirley, Southampton.

A.A.—QUALIFIED 1930; Scot (26), 11 years' West-End experience, desires position as Senior or Manager. "Pharmacist," 9 Endsleigh Gardens, W.C.1.

A.—ASSISTANT (unregistered) (38), tall; Dispensing, Counter-man, Window-dresser; abstainer; permanency preferred; disengaged. Sanders, 93 Bulstrode Road, Hounslow, Middlesex.

A.—ASSISTANT (21) desires permanency; South or S.E. Coast preferred, not essential; 5 years' experience Dispensing, Counter, Photo.; references. "K.," c/o Parkes, 226 Upper Richmond Road, S.W.14.

A.—M.P.S. (48), Manager, Assistant or Locum; just disengaged; N.W.5. London or Suburbs. "Chemist," 94 Torriano Avenue, N.W.5.

A.—QUALIFIED Manager or Assistant (24); good address; first-class all-round experience West End, &c.; good references. 577/15, Office of this Paper.

A.—QUALIFIED Scot (25); tall; all-round experience (London and country); accurate Dispenser, Photograpy; as Manager or Assistant. Chemist, 17 Wormbott Road, W.12.

A.—REFINED and well-educated Young Lady (25), Hall qualification, desires post with a Doctor within travelling distance of either Manchester or Brighton; good references. 574/14, Office of this Paper.

A.—YOUNG Lady (24) requires post; 6 years' Counter and Toilet experience; no Dispensing; East London district preferred. Miss D., 65 Tavistock Gardens, Ilford.

A.—BLE Qualified young man (27) shortly requires situation; sound business knowledge and experience; now branch-managing; sub-P.O. experience. 578/16, Office of this Paper.

A.—LL-ROUND Man; Qualified Optics and Pharmacy; good address; worker; seeks management with view to succession; abstainer; F.B.I. (Hons.) Ellis, 59 Bayford Road, Littlehampton.

A.—S Locum, Manager or Assistant, "not registered"; over 30 years' London experience; whole or part time; Counter, Book-keeper, Dispensing and worker; London only. "Prescriber," 130 Scott-Ellis Gardens, N.W.8.

A.—S Qualified Manager or Assistant; disengaged; 20 years' experience; requires position London or Suburbs. Davies, 109 Alexandra Drive, Surbiton, Surrey.

A.—SSISTANT, Capable Dispenser, Counter and Photographic; 25 years' experience West End and Suburbs; London. R., 14 Howard Road, Cricklewood.

A.—SSISTANT or Manager, Unregistered; active; good Salesman; a single. Statim, 23 Moss Street, Newsome Road, Huddersfield.

A.—SSISTANT, Unqualified, desires position; best all-round West End experience; disengaged. "M.," 25 St. Stephens Road, Bayswater, W.2.

A.—SSISTANT, Unqualified (24), tall; Counter, Dispensing, Window-dressing, Photography; knowledge Optics; South Wales preferred. Advertiser, 14 Litchard Terrace, Bridgend.

A.—SSISTANT (19; 5 ft. 10 ins.); Part I; good Dispenser, Window-dresser and Salesman; with ideas; requires berth; Coventry, Birmingham district preferred; highest references. H. R. Allen, 234 Sovereign Road, Coventry.

A.—SSISTANT (24), Unqualified; West End, seaside, City; N.H.I.; accurate Dispenser, Window-dressing; London. "C.," 44 Turnerville Road, W.14.

CAPABLE Lady Assistant, Unqualified, requires berth; over 10 years' all-round experience; excellent references. 577/16, Office of this Paper.

CAPABLE Lady Assistant, Unqualified (34); 7 years' Counter and Dispensing; excellent references; member Red Cross; any district, but coast preferred. C., 29 Dallin Road, Shooter's Hill, S.E.18.

CAPABLE Manager, M.P.S., F.S.M.C., F.B.O.A., J.C.Q.O., with exceptional experience, seeks permanency offering scope in good-class business where personality and initiative are appreciated; use of optical qualifications optional. 574/35, Office of this Paper.

CHEMIST, Elderly; desires Managership or Locum London District; disengaged. Mitchell, 43 Hazelbourne Road, S.W.12.

DISENGAGED; Referred Part II; used to busy Counter, N.H.I. Dispensing; East London preferred. "S." 480 Green Lane, Seven Kings, Essex.

DISPENSER-BOOK-KEEPER, Doctors'; middle-aged; single; excellent references; moderate salary; any locality. Stephen, 1 Alexandra Road, Bedford Park, W.4.

DISPENSER-BOOK-KEEPER; excellent experience and testimonials. F., 7 Tyler Close, St. Stephen's Hill, Canterbury.

DOCTOR'S Dispenser, Book-keeping; middle-aged (male), active; long experience; any work or hours; London. 65 Cloudesley Road, N.1.

ELDERLY Qualified Chemist, capable, disengaged February 3; short hours; Dispensing; West Country preferred; terms reasonable. 574/30, Office of this Paper.

ENERGETIC Scot (24), tall, Qualified, secondary education, desires situation town or country; excellent references; used to heavy Dispensing and Counter work; well recommended. Chemist, 1272 Argyle Street, Glasgow.

EXPERIENCED Manager, M.P.S.; thoroughly reliable; excellent references. 577/2, Office of this Paper.

EXPERIENCED, Unqualified Assistant (37), married, requires situation; capable and accustomed to responsibility; sound references. Kenyon, "Churchfields," Stafford Street, Market Drayton.

GOOD Salesman; exceptional experience; rapid Dispensing; Window-dresser; tall (24); Qualified; disengaged; good references. Dennis, Chemist, Northampton.

HIGHEST Bidder obtains services of 20 years' Retail experience (all varieties). Qualified, 26 Market Street, Brighton.

IMPROVER; tall, conscientious, just completed apprenticeship; Referred Part I examination. A. C., 72 Spencer Place, Leeds.

JUNIOR Assistant (23) desires situation; smart; well educated; matriculation Part I; good-class London and season experience; excellent references. Horne, 45 Park Road, Chiswick. 'Phone Chiswick 3241.

JUNIOR Assistant (22) desires appointment; S.W. London preferred; completed apprenticeship and passed one examination; good general experience. Write Box 4460, c/o A. W. Brown, 39 Tothill Street, S.W.1.

JUNIOR (20), energetic, reliable, willing; good references; 4 years' experience of good-class Dispensing and Counter business; moderate salary. 575/2, Office of this Paper.

JUNIOR (20; tall), 3 years' experience, requires situation; London district preferred, but not essential. "H. F. B." 23 College Avenue, Maidenhead.

JUNIOR (21), tall; excellent references; City, West End; used to high-class businesses. Clifton, 6 Dagmar Road, South Norwood, S.E.25.

LDY Dispenser-Book-keeper (Hall) (28) requires post with Doctor; 9 years' excellent experience all branches. 575/38, Office of this Paper.

LDY, Qualified, requires post; part-time or locum, or would act as Secretary to Doctor or Firm; good all-round experience and references. Chemist, 5 Randolph Gardens, N.W.6.

LDY, Qualified, Registered and experienced, requires post; able to buy and take full charge; moderate salary. 577/39, Office of this Paper.

LDY, Qualified, "Square," recent experienced locum, desires permanency; moderate salary start; London, West district only; wholesale, retail or hospital. Hughes, Grove Mansions Hotel, Kensington Gardens Square, Bayswater. Tel.: Park 1982.

LDY, Qualified (31), requires post; 12 years' London experience in all branches, including managerial; excellent references; free now. 577/24, Office of this Paper.

LDY; Toilet Senior, with practical experience of Nursing; also some knowledge of Drug Business; special qualifications: Selling Ability; Toilet Business and attention to Lady Customers; age 39; free. Miss M. Fuller, 76 Earlsfield Road, Wandsworth, S.W.18.

LDY, Unqualified, 13 years' excellent experience Dispensing, Counter, seeks change; Midlands preferred, but not essential. 576/40, Office of this Paper.

LDY (27), quick, accurate Dispenser and Book-keeper, seeks afternoon or evening work; Doctor or Chemist; experienced; excellent references; small remuneration only. Dispenser, 59 Chelsham Road, Clapham, S.W.4.

LOCUM; M.P.S.; elderly; good references; moderate terms; short or part day if required, would be preferred; disengaged January 22. J. T. Welburn, c/o Mrs. Brock, 10 Leyland Road, Lee, S.E.12.

LOCUM or Permanency; Qualified (37); married; disengaged now. Hayes, 113 Western Road, Mickleover, Derby.

LOCUM, Qualified; vacant dates to February 5; satisfaction guaranteed; terms £4 4s. "Agar," Brentwood, Halifax Road, Grenoside, near Sheffield.

MANAGERSHIP; living accommodation; Qualified (30); 14 years' experience; present position 5 years; wife willing to assist in shop. 575/13, Office of this Paper.

M.P.S. J.C.Q.O. (33; 5 ft. 11 in.), requires permanency as Manager; excellent references; very successful experience London and Suburbs. 576/8, Office of this Paper.

M.P.S. — $\frac{1}{2}$ years Retail in Lancashire and Surrey; experience of Good-class Dispensing and Family Business; also quick N.H.I. trade; careful dresser, all-round Counterman, good Window-dresser; age 23, 5 ft. 9 ins.; smart appearance, willing and reliable; excellent references; immediately available for post in Retail, Wholesale or Institution. Stanley P. Williams, 80 Westbourne Avenue, Bolton, Lancs.

M.P.S. (28), Square-trained, seeks position as Manager in or near London; at present managing City pharmacy; free January 20, owing to sale of lease; knowledge of every branch; conversant in German; highest credentials. 18 St. John's Mansions, Clapton Square, E.5.

M.P.S. (23; 5 ft. 10 in.) as Assistant or Manager, anywhere; fully experienced all branches, Photographic, Surgical and Toilet, Window-dressing; first-class references; disengaged. Daltry, 52 Chelmsford Street, Oldham.

NOBLE, H. A., Selsdon Road, South Croydon, Qualified, 23, tall; West End experience; Dispensing, Counter and Window-dressing; Square-trained; South preferred.

PART TIME, free from 5.30, and week-ends; Dispenser, Salesman; all-round experience and West End. Reed, 162 Sutherland Avenue, Maida Vale.

QUALIFIED Chemist-Optician (45), own Optical equipment, seeks position as Manager; South-West England preferred, but not essential. 575/26, Office of this Paper.

QUALIFIED desires change; S.E. and E. excepted; medium class; last 6 years similarly engaged; free one month. "Cachet," 574/22, Office of this Paper.

QUALIFIED for past 2 years; Square trained (23, height 5 ft. 6 in.); requires position anywhere as Junior or Dispenser; free now. Weiss, 180 Philip Lane, Tottenham, N.15.

QUALIFIED, long varied experience, good references, desires locum or temporary winter position London or near. S. Hoskins, 24 Grafton Square, Clapham, S.W.

QUALIFIED; Manager or Locum; 30 years' experience; excellent references. Nicol, Angora Farm, Clymping, Littlehampton.

QUALIFIED Manager (30), Scot, married, desires change, preferably to open new branch. 574/27, Office of this Paper.

QUALIFIED (26), present Manufacturing firm, seeks improvement; excellent Dispenser; 8 years' experience; any capacity. "Morgan," 141 Waverley Road, Birmingham, 10.

QUALIFIED (33; 5 ft. 9 in.); married; 18 years' exceptional experience; Pharmacy, Photographic, Counter, Prescribing; 9 years Manager; highest references. 577/10, Office of this Paper.

QUALIFIED (27) desires change, Manager or Senior Assistant; high-class West End, cathedral city and country experience; free one month. 577/29, Office of this Paper.

QUALIFIED (46), semi-retired, smart appearance, good personality, seeks position; light duties or as superintendent; good Prescriber; excellent references; small salary. T., 6 Porchester Place, W.2.

UNQUALIFIED Assistant (20) requires post with good prospects; experienced Salesman, Dispenser and Window-dresser; Islington or City preferred. 574/20, Office of this Paper.

UNQUALIFIED (referred Part II in December) seeks post in London; age 24; public school education; references. 574/11, Office of this Paper.

UNQUALIFIED (38); disengaged; all-round, good-class experience; over 7 years last situation; can commence immediately; locum or permanency. Hays, 23 Agamemnon Road, W. Hampstead, N.W.6.

WANTED shortly, a full charge management; first-class qualifications and experience; middle-aged; married; highest references. Write Luminol, c/o 576/27, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods. Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along. S. E. HACKETT, 23 July Road, Liverpool

WELL Conversant with all departments of the business; smart (39); Unqualified; reliable references. Barnes, 21 Disraeli Road, Putney, S.W.15.

YOUNG Lady seeks position as an Unqualified Assistant in London; 6 years' experience; recommended by present employer; former references good; tall. Kirkby, 47 Hurstbourne Road, S.E.23.

WHOLESALE.

A FIRST-CLASS Representative with prize record desires position with house of repute; sound connection with Chemists, Hairdressers and Departmental Stores; covering Midlands, London and Southern Counties. 578/17, Office of this Paper.

A REAL Live Representative, with strong, extensive connection London and Greater London Chemists, Stores and allied trades, desires change; undeniable Sales records and credentials; own car. Particulars to 575/32, Office of this Paper.

A WORKS Chemist, Qualified, seeks responsible position; experienced Perfumery and Cosmetics, particularly Hairdressing and Beauty Preparations; knowledge of works costing and production statistics; good disciplinarian. 574/7, Office of this Paper.

AN Accomplished Medical Interviewer and skilled Propagandist, with wide experience and an unique knowledge of Medical Men, their requirements and susceptibilities, desires re-engagement. "Zealous," 21 Gloucester Place, Brighton.

A'S Junior Traveller or Representative; first-class experience in Drugs, Toilets, Perfumery, &c. "Cust," 48 Altenburg Gardens, Clapham.

A DIVERTISER desires position as Stock-keeper or Checker with Wholesale house in London or Midlands; excellent references; 16 years' experience; good worker and punctual to time; age 33. 576/34, Office of this Paper.

A SSISTANT (age 23), 7 years' experience Perfumery Manufacture, desires progressive position. George Morrison, 45 Ebury Mews, London, S.W.1.

C AR Owner, connection amongst Chemists and Stores, Lancashire and Cheshire, willing to represent first-class houses on commission. Apply 577/30, Office of this Paper.

C HARGE Hand Pill and Tablet-Maker; many years' experience in all branches Sugar and Pearl Coating, &c.; London, Midlands or North. A. Goldstone, 5 Hillery Road, Walworth, S.E.17.

D ENTAL REPRESENTATION.—Qualified, experienced Propagandist; excellent Dental, Pharmaceutical connection Midlands, South Wales; highest testimonials. Pharmacist, 3 Ashling Villas, Cheltenham.

E MPLOYMENT WANTED.—Wholesale preferred; 32 years' experience Wholesale and Retail in England and Canada; not Qualified; good references. Morris, 15 Wat's Drive, Oswestry, Salop.

K EEN, Qualified, seeks representative position in the North with Wholesale Drug House; extensive knowledge of the trade, Wholesale, Retail and 1 year as representative; good references and appearance. 576/30, Office of this Paper.

M EDICAL Representation.—Qualified Pharmacist, young, desires to join first-class house; experienced propagandist; requisite appearance, personality, initiative; knowledge Therapeutics; administrative and interviewing ability; drive car; resident London; can commence immediately. 234/429, Office of this Paper.

P H.C. DESIRES to represent good-class firm in Belfast and North of Ireland; experienced. 573/31, Office of this Paper.

P H.C. (35) DESIRES progressive post, Northern Counties preferred; 10 years' experience Manufacturing and Buying, Drugs, Galenicals and Toilets with well-known houses; capable, energetic; good references. 576/300, Office of this Paper.

R EPRESENTING Manufacturing Chemists; 20 years' extensive connection with Chemists and kindred trades Lancashire, Cheshire, North Wales; Sundries, Packed Lines, Toilets, &c.; excellent reference; invites genuine proposition from firm of repute. C. L. Wainwright, 20 Onslow Road, Fairfield, Liverpool.

TINCTURE Maker, Wet and Dry Counter, Export Packer; 20 years' experience. Canning, 171 Boundary Road, Leyton, E.17.

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